[MS-EMMCSOM]:

Enterprise Managed Metadata Client-Side Object Model Protocol

Revision Summary

Date	Revision History	Revision Class	Comments
1/20/2012	0.1	New	Released new document.
4/11/2012	0.1	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	0.1	None	No changes to the meaning, language, or formatting of the technical content.
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10/8/2012	1.0	Major	Significantly changed the technical content.
2/11/2013	1.0	None	No changes to the meaning, language, or formatting of the technical content.
7/30/2013	1.1	Minor	Clarified the meaning of the technical content.
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10/1/2018	7.0	Major	Significantly changed the technical content.
12/11/2018	7.1	Minor	Clarified the meaning of the technical content.
7/20/2021	8.0	Major	Significantly changed the technical content.
10/5/2021	9.0	Major	Significantly changed the technical content.

Table of Contents

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

1.1 Glossary

This document uses the following terms:

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

contact: A person, company, or other entity that is stored in a directory and is associated with one or more unique identifiers and attributes, such as an Internet message address or login name.

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

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

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

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

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

CSOM dictionary: An object that contains an unordered collection of key/value pairs that can be used in an XML request or **JSON** response text. Each key in a CSOM dictionary has a unique name.

CSOM GUID: A **GUID**, as described in [MS-DTYP], that can be used in an XML request or as a string in **JSON** response text.

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

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

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

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

CSOM TimeSpan: A data type that represents a time interval (duration of time or elapsed time) that is measured as a positive or negative number of days, hours, minutes, seconds, and fractions of a second.

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

deprecated term: A term that persists in the term store but cannot be used in future applications of metadata.

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

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

field: A container for metadata within a SharePoint list and associated list items.

global group: An Active Directory group that allows user objects from its own domain and **global groups** from its own domain as members. Also called domain global group. Universal groups can contain **global groups**. A group object g is a **global group** if and only if GROUP_TYPE_ACCOUNT_GROUP is present in g! groupType; see [MS-ADTS] section 2.2.12, "Group Type Flags". A **global group** that is also a security-enabled group is valid for inclusion within ACLs anywhere in the forest. If a domain is in mixed mode, then a **global group** in that domain that is also a security-enabled group allows only user object as members. See also domain local group, security-enabled group.

globally unique identifier (GUID): A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [RFC4122] or [C706] must be used for generating the **GUID**. See also universally unique identifier (UUID).

hierarchy: A logical tree structure that organizes the members of a dimension such that each member has one parent member and zero or more child members.

Hypertext Markup Language (HTML): An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [HTML].

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

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

JavaScript Object Notation (JSON): A text-based, data interchange format that is used to transmit structured data, typically in Asynchronous JavaScript + XML (AJAX) web applications, as described in [RFC7159]. The JSON format is based on the structure of ECMAScript (Jscript, JavaScript) objects.

keyword: One or more words or phrases that site administrators identified as important for a search service application. A keyword provides a way to apply business rules to search results for queries that use the keyword.

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

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

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

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

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

orphaned term: A **term** whose source term was deleted.

resource token: An encoded string that refers to an entry in a localized resource file.

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

site collection: A set of websites that are in the same content database, have the same owner, and share administration settings. A site collection can be identified by a **GUID** or the **URL** of the top-level site for the site collection. Each site collection contains a top-level site, can contain one or more subsites, and can have a shared navigational structure.

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

source term: A specific instance of a **term**, in a specific term set, that is used to define permissions for the term.

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

term: A concept or an idea that is stored and can be used as metadata.

term label: A string that is used as the display value for a term. Each term label is associated with a specific language.

term set: A collection of terms that are arranged into and stored as a hierarchy or a flat list.

term store: A database in which managed metadata is stored in the form of **term sets** and **terms**.

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

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

web application: A container in a configuration database that stores administrative settings and entry-point **URLs** for **site collections**.

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

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic

syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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

1.2 References

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

1.2.1 Normative References

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

[ECMA-262-1999] Ecma International, "ECMAScript Language Specification", Standard ECMA-262 3rd Edition - December 1999, http://www.ecma-international.org/publications/files/ECMA-ST-ARCH/ECMA-262,%203rd%20edition,%20December%201999.pdf

[MS-CSOMSPT] Microsoft Corporation, "SharePoint Client-Side Object Model Protocol".

[MS-CSOM] Microsoft Corporation, "SharePoint Client Query Protocol".

[MS-EMMWCF] Microsoft Corporation, "Metadata Shared Service WCF Service Protocol".

[MS-PRIMEPF] Microsoft Corporation, "Deployment Package Format".

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

[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.rfc-editor.org/rfc/rfc2616.txt

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

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

1.2.2 Informative References

None.

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 **JavaScript Object Notation (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.

Enterprise Managed Metadata Client-Side Object Model Protocol	This Protocol
SharePoint Client Query ([MS-CSOM])	
JSON [RFC4627]	Industry Standard
HTTP | HTTPS	
TCP	
IP	
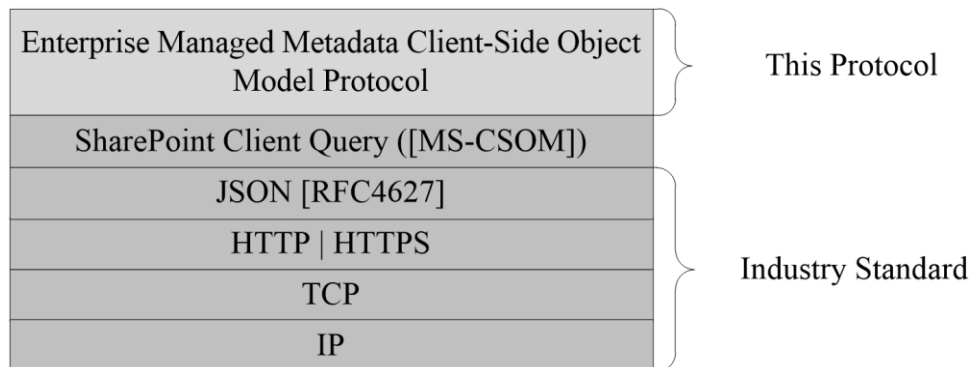
Figure 1: This protocol in relation to other protocols

1.5   Prerequisites/Preconditions

This protocol operates against a **term store** on a **site** 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].

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 can 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**. 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, as specified in [MS-CSOM].

2.2   Message Syntax

None.

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.ChangedItem (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.

Remarks:

The **ChangedGroup** object derives from the **ChangedItem** (section 3.1.5.2) base 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**.

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.

Remarks:

The **ChangedSite** object derives from the **ChangedItem** (section 3.1.5.2) base object.

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** 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.

Remarks:

The **ChangedTerm** object derives from the **ChangedItem** (section 3.1.5.2) base 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: CSOM array of **CSOM 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: CSOM array of **CSOM 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: CSOM array of **CSOM Int32**

Accessibility: Read Only

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

3.1.5.7.1.1.11   LcidsForChangedLabels

Type: CSOM array of **CSOM 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.

Remarks:

The **ChangedTermSet** object derives from the **ChangedItem** (section 3.1.5.2) base 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.

Remarks:

The **ChangedTermStore** object derives from the **ChangedItem** (section 3.1.5.2) base 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	The language of a default **Label** (section 3.1.5.10) cannot be changed.
-2146233086	**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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147024809	**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:

Error Code	Error Type Name	Condition
		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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**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
-2147024891	**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
-1	**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

Error Code	Error Type Name	Condition
		to a **field**.

3.1.5.13.1.1.3 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 of **CSOM String**

Accessibility: Read Only

Gets an array of **string** values representing the 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   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** of the current **site collection**.

3.1.5.15.2   Methods

3.1.5.15.2.1 Scalar Methods

3.1.5.15.2.1.1   UpdateCache

Return Type: None

This method forces the taxonomy cache to communicate with the Managed Metadata Service to check for changes to any taxonomy objects.

Remarks:

A background thread already performs these checks at periodic intervals, so calling **UpdateCache** is normally unnecessary. However, it is sometimes useful immediately before a change (to reduce the likelihood of save conflict errors), or immediately after a change (if that change has been performed via a different Web Front End (WFE)).

This method updates the cache for each **TermStore** (section 3.1.5.23) object.

Parameters: 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.

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**

3.1.5.15.2.2.2   GetTerms

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

Gets a collection of **Term** (section 3.1.5.16) objects from all **TermSet** (section 3.1.5.20) objects, which are not scoped to a **Site** ([MS-CSOMSPT] section 3.2.5.119) object, from all **TermStore** (section 3.1.5.23) objects, based on the label criteria provided.

Remarks:

The **LabelMatchInformation** values that are set MUST be one of these combinations:

- **LabelMatchInformation.TermLabel** and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, **LabelMatchInformation.TrimUnavailable**, and **LabelMatchInformation.TrimDeprecated**.

If the combination of **LabelMatchInformation** (section 3.1.5.30) values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **LabelMatchInformation.TermLabel** (section 3.1.5.30.1.1.6) cannot be null or empty, and MUST NOT exceed 255 characters in length. It also cannot contain any of the following illegal characters: ; " < > | & tab

The search is case-insensitive, and will match either the entire label or only check that it starts with the specified string depending on the value of the **LabelMatchInformation.StringMatchOption** (section 3.1.5.30.1.1.5) parameter. If the **LabelMatchInformation.StringMatchOption** is not set, it defaults to exact match.

If **LabelMatchInformation.TrimUnavailable** (section 3.1.5.30.1.1.8) is true, then terms that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all terms will be returned regardless of their **Term.IsAvailableForTagging** value.

If **LabelMatchInformation.Lcid** (section 3.1.5.30.1.1.3) is specified, then a **Term** will be returned if a **Label** in the specified **Lcid** matches the string provided. If no **Lcid** is specified, then all **Term.Labels** (section 3.1.5.16.1.2.1) in all working languages will be searched by this method. The **lcid** value MUST be one of the working languages of the **term store**, specified by **TermStore.Languages** (section 3.1.5.23.1.1.4).

If **LabelMatchInformation.DefaultLabelOnly** (section 3.1.5.30.1.1.1) is true, then only the default labels will be searched.

The maximum number of results returned from this search is restricted by the **LabelMatchInformation.ResultCollectionSize** (section 3.1.5.30.1.1.4) parameter. If **LabelMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

If **LabelMatchInformation.TrimDeprecated** (section 3.1.5.30.1.1.7) is true, then terms that have **Term.IsDeprecated** (section 3.1.5.16.1.1.6) set to true will be trimmed from the results; otherwise, all terms will be returned regardless of their **Term.IsDeprecated** value.

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
-2147024809	**ArgumentException**	Incorrect combination of **LabelMatchInformation** settings provided.
-2147024809	**ArgumentException**	Invalid value provided for one of the **LabelMatchInformation** settings.
-2147024809	**ArgumentException**	The value of **LabelMatchInformation.TermLabel** is invalid. It either contains invalid characters or is too long.
-2147467261	**ArgumentNullException**	Some **LabelMatchInformation** settings cannot be **null** or empty.
-2147467261	**ArgumentNullException**	The **LabelMatchInformation.TermLabel** cannot be null or empty.
-2146233086	**ArgumentOutOfRangeException**	The **LabelMatchInformation.Lcid** value MUST be one of the working languages in the current **TermStore**.

Parameters:

labelMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.LabelMatchInformation

3.1.5.15.2.2.3   GetTermsWithCustomProperty

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

Gets a collection of all of the **Term** (section 3.1.5.16) objects, from all **TermStore** (section 3.1.5.23) objects, that have a custom property matching the criteria provided.

Remarks:

The **CustomPropertyMatchInformation** (section 3.1.5.29) values that are set MUST be one of these combinations:

- **CustomPropertyMatchInformation.CustomPropertyName** and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.ResultCollectionSize**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**,
  CustomPropertyMatchInformation.CustomPropertyValue, and
  CustomPropertyMatchInformation.TrimUnavailable.

- **CustomPropertyMatchInformation.CustomPropertyName**,
  CustomPropertyMatchInformation.CustomPropertyValue,
  CustomPropertyMatchInformation.StringMatchOption, and
  CustomPropertyMatchInformation.TrimUnavailable.

- **CustomPropertyMatchInformation.CustomPropertyName**,
  CustomPropertyMatchInformation.CustomPropertyValue,
  CustomPropertyMatchInformation.StringMatchOption,
  CustomPropertyMatchInformation.ResultCollectionSize, and
  CustomPropertyMatchInformation.TrimUnavailable.

Only **Term** objects within **TermSet** objects that are not scoped to a **Site** ([MS-CSOMSPT] section 3.2.5.119) and **TermSet** objects that are scoped to the current **Site** are searched.

If the combination of **CustomPropertyMatchInformation** values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **CustomPropertyMatchInformation.CustomPropertyName** (section 3.1.5.29.1.1.1) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain any of the following illegal characters: ; " < > | & tab

The **CustomPropertyMatchInformation.CustomPropertyValue** (section 3.1.5.29.1.1.2) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain the illegal characters \t or \n.

The search is case-insensitive, and will match either the entire value or the custom property name or value, or only check that it starts with the specified string depending on the value of the **CustomPropertyMatchInformation.StringMatchOption** (section 3.1.5.29.1.1.4) parameter. If the **CustomPropertyMatchInformation.StringMatchOption** is not set, it defaults to exact match.

The **CustomPropertyMatchInformation.ResultCollectionSize** (section 3.1.5.29.1.1.3) value MUST be greater than 0. The maximum number of results returned from this search is restricted by the **CustomPropertyMatchInformation.ResultCollectionSize** parameter. If **CustomPropertyMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

If **CustomPropertyMatchInformation.TrimUnavailable** (section 3.1.5.29.1.1.5) is set to true, then **Term** objects that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all matching terms will be returned regardless of their **Term.IsAvailableForTagging** value.

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
-2147024809	**ArgumentException**	Incorrect combination of **CustomPropertyMatchInformation** settings provided.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyName** is invalid. It either contains invalid characters or is too long.

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It exceeds the maximum allowed length of 255.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It contains invalid character '\t', '\n', or both.
-2147467261	**ArgumentNullException**	Some **CustomPropertyMatchInformation** settings MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyName** MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyValue** MUST NOT be **null** or empty.
-2146233086	**ArgumentOutOfRangeException**	The **CustomPropertyMatchInformation.ResultCollectionSize** is invalid. It MUST be greater than 0.

Parameters:

customPropertyMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

3.1.5.15.2.2.4   GetTermsInDefaultLanguage

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

The **GetTermsInDefaultLanguage** method searches **Label** objects (section 3.1.5.10) in the **TermStore** (section 3.1.5.23) default language, and returns **Term** (section 3.1.5.16) objects from all **TermSet** objects (section 3.1.5.20) that are not scoped to a **site** from all **TermStore** objects with a **Label** matching the provided string.

Parameters:

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

Type: **CSOM String**

defaultLabelOnly: This parameter is "true" if the method only searches default **Label** objects; otherwise, "false" if it searches all **Label** objects.

Type: **CSOM Boolean**

stringMatchOption: Indicates 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** objects to return from each **TermStore** object.

Type: **CSOM Int32**

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

trimDeprecated: This parameter is "true" if the method trims away the deprecated **Term** objects from the result collection; otherwise, "false" if it includes the deprecated **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.5　　　　GetTermsInWorkingLocale

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

The **GetTermsInWorkingLocale** method searches **Label** objects (section 3.1.5.10) in the **TermStore** (section 3.1.5.23) working language, and returns **Term** objects (section 3.1.5.16) from all **TermSet** objects (section 3.1.5.20) that are not scoped to a **site** from all **TermStore** objects with a **Label** matching the provided string.

Parameters:

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

Type: **CSOM String**

defaultLabelOnly: This parameter is "true" if the method only searches default **Label** objects; "false" if it searches all **Label** objects.

Type: **CSOM Boolean**

stringMatchOption: Indicates 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** objects to return from each **TermStore**.

Type: **CSOM Int32**

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

trimDeprecated: This parameter is "true" if the method trims away the **deprecated term** **Term** (section 3.1.5.16) objects from the result collection; otherwise, "false" if it includes the deprecated **Term** objects in the result collection.

Type: CSOM Boolean

3.1.5.15.2.2.6　　　　GetDefaultKeywordsTermStore

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

Gets the **TermStore** (section 3.1.5.23) object to be used for keywords. This value is specified on the metadata application proxy connection. If multiple proxies associated with a **Web application** in a **site** are marked as the default keywords **TermStore**, then the server MUST return NULL because only

a single default keywords **TermStore** can exist. If no **TermStore** has been selected as the default, then the server MUST return NULL.

Parameters: None

3.1.5.15.2.2.7   GetDefaultSiteCollectionTermStore

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

Gets the **TermStore** (section 3.1.5.23) object to be used for metadata that is specific to the site collection, such as column-specific **TermSet** (section 3.1.5.20) objects. This value is specified on the metadata application proxy connection. If multiple proxies associated with a **Web application** in a **site** are marked as the default keywords **TermStore**, then the server MUST return NULL because only a single default keywords **TermStore** can exist.

Parameters: None

3.1.5.15.2.2.8   GetTaxonomySession

This method is a **static CSOM method**.

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

This method retrieves a **TaxonomySession** (section 3.1.5.15) object for performing taxonomy-related operations.

The **TaxonomySession** returned is based on the in-context **Site** ([MS-CSOMSPT] section 3.2.5.119). The client-side object model supports only one **TaxonomySession** instance for a given client context. If this method is called multiple times, it will return the same object.

Unlike the server-side object model, this method does not provide a parameter to update the cache. That can be accomplished by explicitly calling **TaxonomySession.UpdateCache** (section 3.1.5.15.2.1.1).

Parameters: None

3.1.5.15.2.2.9   GetTermsById

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

Gets a set of **Term** (section 3.1.5.16) objects based on **Term.Id** (section 3.1.5.16.1.1.4). If a **Term** is part of more than one **TermSet** (section 3.1.5.20) object, it will arbitrarily return the **Term** from one of the **TermSet** objects.

Parameters:

termIds: A list of **Term** (section 3.1.5.16) Ids.

Type: **CSOM array** of **CSOM GUID**

3.1.5.15.2.2.10   GetTermSetsByName

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** object.

Type: **CSOM String**

lcid: LCID of the language.

Type: **CSOM Int32**

3.1.5.15.2.2.11 GetTermSetsByTermLabel

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

Gets all of the **TermSet** (section 3.1.5.20) objects from all of the **TermStore** (section 3.1.5.23) objects that contain **Term** (section 3.1.5.16) objects with matching LCID-specific labels for all specified strings.

Parameters:

requiredTermLabels: A list of strings to search.

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

lcid: The language to search in.

Type: **CSOM Int32**

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 a 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 GUID**s 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (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 user interface. The tagging user interface is a user interface for adding terms as tags to other items.

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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (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 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (section 3.1.5.20) object. The operation failed.
-2147024809	**ArgumentException**	The name is not valid because it either contains invalid characters or is too long.
-2147467261	**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**. It cannot exceed 255 characters.

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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (section 3.1.5.20) object. The operation failed.

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.

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: CSOM array of CSOM 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 access 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
-2147467261	**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
-2147467261	**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
-2147467261	**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
-2147467261	**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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	The operation is not valid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.
-2147024809	**ArgumentException**	The custom property name is not valid: it contains characters that are not valid, or is too long.
-2147467261	**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 term set** 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	The operation is not valid in orphaned terms term set (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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	The operation is not valid in the **orphaned terms term set** (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
-2146233086	**ArgumentOutOfRangeException**	The *lcid* 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147467261	**ArgumentNullException**	The new parent **Term** is **null**.
-2147024809	**ArgumentException**	The new parent **Term** is not valid.
-1	**TermStoreOperationException**	The **keyword TermSet** (section 3.1.5.20) only allows a flat list of **Term** objects.
-1	**TermStoreOperationException**	Cannot move a **Term** to itself.

Error Code	Error Type Name	Condition
-1	**TermStoreOperationException**	Cannot move a **Term** to its descendent **Term** objects.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set**. The operation failed.
-1	**TermStoreOperationException**	Cannot move a **Term** to a **TermSet** where other reused **Term** objects are not allowed.
-1	**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 term set** and the operation succeeded, then the old source **Term** is removed from the orphaned terms term set. 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147467261	**ArgumentNullException**	The reused **Term** to become the new source is **null** or not valid.
-1	**TermStoreOperationException**	The current **Term** MUST be the source **Term** to reassign the current setting to another **Term**.
-1	**TermStoreOperationException**	The source **Term** cannot be reassigned to itself.
-2147024809	**ArgumentException**	The *reusedTerm* 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set**. The operation failed.
-2147024809	**ArgumentException**	The custom property name is not valid. It contains characters that are not valid or is too long.
-2147467261	**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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set**. The operation failed.
-2147024809	**ArgumentException**	The custom property name is not valid. It contains characters that are not valid or is too long.
-2147467261	**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
-2147467261	**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 exists. 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set**. 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
-2147024891	**UnauthorizedAccessException**	The protocol client does not have sufficient permissions to perform this operation.

Error Code	Error Type Name	Condition
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.
-2147024809	**ArgumentException**	The label name is not valid, it contains characters that are not valid, or is too long.
-2147467261	**ArgumentNullException**	The label name is **null** or an empty string.
-2146233086	**ArgumentOutOfRangeException**	The *lcid* is not a supported language in the **term store**.
-2147024809	**ArgumentException**	The **Label** will be created as a non-default **Label**, and the name already exists for this *lcid*.

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 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Keyword term set (section 3.1.5.20) only allows a flat list of **Term** objects.
-2147024809	**ArgumentException**	The name is not valid, it contains characters that are not valid, or is too long.
-2147467261	**ArgumentNullException**	The *name* is **null** or empty string.
-2146233086	**ArgumentOutOfRangeException**	The *lcid* 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
-2146233086	**ArgumentOutOfRangeException**	The *lcid* is not valid.

3.1.5.16.2.2.5   GetTerms

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

The **GetTerms** method 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 are not necessarily in sync with changes that have been made but not committed.

Exceptions:

Error Code	Error Type Name	Condition
-2146233086	**ArgumentOutOfRangeException**	The *lcid* is not a supported language in the **term store**.
-2147024809	**ArgumentException**	The *termLabel* is not valid: contains characters that are not valid or is too long.
-2147467261	**ArgumentNullException**	The *termLabel* 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 **Term** to merge into.

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
-2147467261	**ArgumentNullException**	The **Term** to merge into is **null**.
-2147024809	**ArgumentException**	The **Term** to merge into is not valid.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Cannot merge a **Term** to its reused **Term**.
-1	**TermStoreOperationException**	Only a source **Term** can be merged into another source **Term**.
-1	**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.
-2147024891	**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 term set**. 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the orphaned terms term set (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Keywords are not allowed to be reused.
-1	**TermStoreOperationException**	Reusing a deprecated **Term** is not allowed.
-1	**TermStoreOperationException**	**Term** objects cannot be shared multiple times in the same **TermSet** (section 3.1.5.20).
-1	**TermStoreOperationException**	The target **TermSet** cannot be the keywords term set or the orphaned terms term set.
-2147467261	**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.

Remarks:

The **TermGroup** object derives from the **TaxonomyItem** (section 3.1.5.14) base object.

The ContributorPrincipalNames and GroupManagerPrincipalNames properties are not included in the **default scalar property set** for this type.

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 used only by a specific **site collection** (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**. The system **TermGroup** is the **TermGroup** where **TermSet** (section 3.1.5.20) objects are used by the system itself.

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.

3.1.5.18.1.1.8 ContributorPrincipalNames

Type: CSOM array of CSOM String

Accessibility: Read Only

Returns the principal names indicating the users who are contributors for this group.

3.1.5.18.1.1.9   GroupManagerPrincipalNames

Type: CSOM array of **CSOM String**

Accessibility: Read Only

Returns the principal names indicating the users who are group managers for this group.

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

3.1.5.18.2.1.4   AddContributor

Return Type: None

Adds a contributor to the Group object.

Parameters:

principalName: The login name of the user to be added as a contributor.

Type: **CSOM String**

3.1.5.18.2.1.5   AddGroupManager

Return Type: None

Adds a group manager to the Group object.

Parameters:

principalName: The login name of the user to be added as a group manager.

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

3.1.5.18.2.2.3 GetTermSetsWithCustomProperty

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

Gets a collection of all of the **TermSet** (section 3.1.5.20) objects in this **Group** (section 3.1.5.18) that the current user has permissions to read, that have a custom property matching the criteria provided.

Remarks:

The **CustomPropertyMatchInformation** (section 3.1.5.29) values that are set MUST be one of these combinations:

- **CustomPropertyMatchInformation.CustomPropertyName**.

- **CustomPropertyMatchInformation.CustomPropertyName** and **CustomPropertyMatchInformation.CustomPropertyValue**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, and **CustomPropertyMatchInformation.StringMatchOption**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, and **CustomPropertyMatchInformation.ResultCollectionSize**.

If the combination of **CustomPropertyMatchInformation** values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **CustomPropertyMatchInformation.CustomPropertyName** (section 3.1.5.29.1.1.1) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain any of the following illegal characters: ; " < > | & tab

The **CustomPropertyMatchInformation.CustomPropertyValue** (section 3.1.5.29.1.1.2) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain the illegal characters \t or \n.

The search is case-insensitive, and will match either the entire value or the custom property name or value, or only check that it starts with the specified string depending on the value of the **CustomPropertyMatchInformation.StringMatchOption** (section 3.1.5.29.1.1.4) parameter. If the **CustomPropertyMatchInformation.StringMatchOption** is not set, it defaults to exact match.

The **CustomPropertyMatchInformation.ResultCollectionSize** (section 3.1.5.29.1.1.3) value MUST be greater than 0. The maximum number of results returned from this search is restricted by the **CustomPropertyMatchInformation.ResultCollectionSize** parameter. If **CustomPropertyMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

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
-2147024809	**ArgumentException**	Incorrect combination of **CustomPropertyMatchInformation** settings provided.

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyName** is invalid. It either contains invalid characters or is too long.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It exceeds the maximum allowed length of 255.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It contains invalid character '\t', '\n', or both.
-2147024809	**ArgumentException**	**CustomPropertyMatchInformation.TrimUnavailable** MUST NOT be set.
-2147467261	**ArgumentNullException**	Some **CustomPropertyMatchInformation** settings MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyName** MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyValue** MUST NOT be **null** or empty.
-2146233086	**ArgumentOutOfRangeException**	The **CustomPropertyMatchInformation.ResultCollectionSize** is invalid. It MUST be greater than 0.

Parameters:

customPropertyMatchInformation: Indicates the search criteria to use when retrieving **TermSet** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

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 term set**. 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
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set. The operation failed.
-2147024891	**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
-1	**InvalidOperationException**	The current **Term** is invalid.
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.

3.1.5.20.1.1.5   Description

Type: CSOM String

Accessibility: Read/Write

Specifies 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-2147024809	**ArgumentException**	The input description value is too long or contains characters that are not valid.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.

3.1.5.20.1.1.6   Id

Type: CSOM GUID

Accessibility: Read Only

Specifies 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 appears in the tagging user interface.

Remarks:

The property cannot be set in the **orphaned terms term set**. 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Modifying tagging related properties of the orphaned terms term set 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set** (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Modifying tagging related properties of the orphaned terms term set 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 **term set** objects, such as the **keywords** term set or the **orphaned terms** term set. 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
–2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147024809	**ArgumentException**	The value is invalid. It either contains invalid characters or is too long.
-1	**TermStoreOperationException**	The renaming of a system term set is not allowed.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set. The operation failed.
-2147467261	**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. It cannot exceed 255 characters. **Owner** cannot be set on the **orphaned terms term set**. 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
–2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147024809	**ArgumentException**	The user name is too long.
-2147024809	**ArgumentException**	The user name cannot be found.
-2147467261	**ArgumentNullException**	The value is **null**.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set. The operation failed.

3.1.5.20.1.1.12   Stakeholders

Type: CSOM array of CSOM String

Accessibility: Read Only

Gets the collection of stakeholders for the current **TermSet** (section 3.1.5.20) object.

A stakeholder is a user who has an interest in the current **TermSet**. A **TermSet** can have 0 or more stakeholders. The returned collection can be empty. The returned collection is read-only. To add a stakeholder, use the **AddStakeholder** (section 3.1.5.20.2.1.8) method. To delete a stakeholder, use the **DeleteStakeholder** (section 3.1.5.20.2.1.9) method.

3.1.5.20.1.1.13   Names

Type: CSOM dictionary

Accessibility: Read Only

Gets the name for this TermSet.

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 term set**. The **DeleteObject** operation is not permitted on any system term set object, such as the **keywords** term set or the orphaned terms term set. 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set. The operation failed.
-1	**TermStoreOperationException**	Deleting a system term set 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** is 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 **term set** objects, such as the **keywords** term set or the **orphaned terms** term set. 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-2147467261	**ArgumentNullException**	The *targetGroup* MUST NOT be **null**.
-1	**TermStoreOperationException**	Moving a system term set is not allowed.
-1	**TermStoreOperationException**	Moving a **TermSet** to system **TermGroup** is not allowed.
-1	**TermStoreOperationException**	**TermSet** names MUST be unique within a **TermGroup**.
-1	**TermStoreOperationException**	This operation is not valid in the orphaned terms term set. 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

3.1.5.20.2.1.8   AddStakeholder

Return Type: None

Adds a stakeholder to the **TermSet** (section 3.1.5.20) object.

Remarks:

A stakeholder is a user who has an interest in the current **TermSet** object. A **TermSet** can have 0 or more stakeholders.

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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-2147024809	**ArgumentException**	The *stakeholderName* is too long.
-2147024809	**ArgumentException**	The *stakeholderName* cannot be found.
-2147467261	**ArgumentNullException**	The *stakeholderName* is **null** or empty.

Parameters:

stakeholderName: The login name of the user to be added as a stakeholder.

Type: **CSOM String**

3.1.5.20.2.1.9   DeleteStakeholder

Return Type: None

Deletes a stakeholder from the **TermSet** (section 3.1.5.20) 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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	A stakeholder with the specified name was not found.

Parameters:

stakeholderName: The login name of an existing stakeholder for the current **TermSet** object.

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 **term set** objects, such as the **keywords** term set or the **orphaned terms** term set. 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set object. The operation failed.
-1	**TermStoreOperationException**	Copying a system term set 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 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is not valid in the **orphaned terms term set**. The operation failed.
-1	**TermStoreOperationException**	Keyword **TermSet** (section 3.1.5.20) only allows a flat list of **Term** objects.
-2147024809	**ArgumentException**	The name is not valid, it contains invalid characters, or is too long.
-2147467261	**ArgumentNullException**	The *name* is **null** or an empty string.
-2146233086	**ArgumentOutOfRangeException**	The *lcid* 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:

This method is used to do bulk operations on all **Term** objects in a **TermSet** without traversing the hierarchy. There is no specific order to the **Term** objects in the collection. The collection includes **deprecated term** **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

Gets a collection of all **Term** (section 3.1.5.16) objects from the current **TermSet** (section 3.1.5.20) object based on the label criteria provided.

Remarks:

The **LabelMatchInformation** values that are set MUST be one of these combinations:

- **LabelMatchInformation.TermLabel** and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, and **LabelMatchInformation.TrimUnavailable**.

If the combination of **LabelMatchInformation** (section 3.1.5.30) values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **LabelMatchInformation.TermLabel** (section 3.1.5.30.1.1.6) cannot be null or empty, and MUST NOT exceed 255 characters in length. It also cannot contain any of the following illegal characters: ; " < > | & tab

The search is case-insensitive, and will match either the entire label or only check that it starts with the specified string depending on the value of the **LabelMatchInformation.StringMatchOption** (section 3.1.5.30.1.1.5) parameter. If the **LabelMatchInformation.StringMatchOption** is not set, it defaults to exact match.

If **LabelMatchInformation.TrimUnavailable** (section 3.1.5.30.1.1.8) is true, then terms that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all terms will be returned regardless of their **Term.IsAvailableForTagging** value.

If **LabelMatchInformation.Lcid** (section 3.1.5.30.1.1.3) is specified, then a **Term** will be returned if a **Label** in the specified **Lcid** matches the string provided. If no **Lcid** is specified, then all **Term.Labels** (section 3.1.5.16.1.2.1) in all working languages will be searched by this method. The **lcid** value MUST be one of the working languages of the **term store**, specified by **TermStore.Languages** (section 3.1.5.23.1.1.4).

If **LabelMatchInformation.DefaultLabelOnly** (section 3.1.5.30.1.1.1) is true, then only the default labels will be searched.

The maximum number of results returned from this search is restricted by the **LabelMatchInformation.ResultCollectionSize** (section 3.1.5.30.1.1.4) parameter. If **LabelMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

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
-2147024809	**ArgumentException**	Incorrect combination of **LabelMatchInformation** settings provided.
-2147024809	**ArgumentException**	Invalid value provided for one of the **LabelMatchInformation** settings.
-2147024809	**ArgumentException**	The value of **LabelMatchInformation.TermLabel** is invalid. It either contains invalid characters or is too long.
-2147467261	**ArgumentNullException**	Some **LabelMatchInformation** settings cannot be **null** or empty.
-2147467261	**ArgumentNullException**	The **LabelMatchInformation.TermLabel** cannot be null or empty.
-2146233086	**ArgumentOutOfRangeException**	The **LabelMatchInformation.Lcid** value MUST be one of the working languages in the current **TermStore**.

Parameters:

labelMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.LabelMatchInformation

3.1.5.20.2.2.7   GetTermsWithCustomProperty

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

Gets a collection of all **Term** (section 3.1.5.16) objects from the current **TermSet** (section 3.1.5.20) object that have a custom property matching the criteria provided.

Remarks:

The **CustomPropertyMatchInformation** (section 3.1.5.29) values that are set MUST be one of these combinations:

- **CustomPropertyMatchInformation.CustomPropertyName** and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.ResultCollectionSize**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, **CustomPropertyMatchInformation.ResultCollectionSize**, and **CustomPropertyMatchInformation.TrimUnavailable**.

If the combination of **CustomPropertyMatchInformation** values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **CustomPropertyMatchInformation.CustomPropertyName** (section 3.1.5.29.1.1.1) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain any of the following illegal characters: ; " < > | & tab

The **CustomPropertyMatchInformation.CustomPropertyValue** (section 3.1.5.29.1.1.2) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain the illegal characters \t or \n.

The search is case-insensitive, and will match either the entire value or the custom property name or value, or only check that it starts with the specified string depending on the value of the **CustomPropertyMatchInformation.StringMatchOption** (section 3.1.5.29.1.1.4) parameter. If the **CustomPropertyMatchInformation.StringMatchOption** is not set, it defaults to exact match.

The **CustomPropertyMatchInformation.ResultCollectionSize** (section 3.1.5.29.1.1.3) value MUST be greater than 0. The maximum number of results returned from this search is restricted by the **CustomPropertyMatchInformation.ResultCollectionSize** parameter. If **CustomPropertyMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

If **CustomPropertyMatchInformation.TrimUnavailable** (section 3.1.5.29.1.1.5) is set to true, then **Term** objects that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all matching terms will be returned regardless of their **Term.IsAvailableForTagging** value.

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
-2147024809	**ArgumentException**	Incorrect combination of **CustomPropertyMatchInformation** settings provided.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyName** is invalid. It either contains invalid characters or is too long.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It exceeds the maximum allowed length of 255.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It contains invalid character '\t', '\n', or both.
-2147467261	**ArgumentNullException**	Some **CustomPropertyMatchInformation** settings MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyName** MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyValue** MUST NOT be **null** or empty.
-2146233086	**ArgumentOutOfRangeException**	The **CustomPropertyMatchInformation.ResultCollectionSize** is invalid. It MUST be greater than 0.

Parameters:

customPropertyMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned term **TermSet** (section 3.1.5.20). The operation failed.
-1	**TermStoreOperationException**	Keywords are not allowed to be reused.
-1	**TermStoreOperationException**	Reusing a **deprecated term** **Term** is not allowed.
-1	**TermStoreOperationException**	**Term** objects cannot be shared multiple times in the same **TermSet**.
-1	**TermStoreOperationException**	The target **term set** cannot be the keywords term set or the orphaned terms term set.
-2147467261	**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

3.1.5.20.2.2.10   GetAllTermsIncludeDeprecated

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

Returns a **TermCollection** (section 3.1.5.17) that contains a flat list of all **Term** (section 3.1.5.16) objects, including deprecated ones in the **TermSet** (section 3.1.5.20).

Parameters: None

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 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the **orphaned terms term set**. The operation failed.
-1	**TermStoreOperationException**	Keyword term set only allows a flat list of **Term** objects.
-2147024809	**ArgumentException**	The *name* is not valid, it contains characters that are not valid, or is too long.
-2147467261	**ArgumentNullException**	The *name* is **null** or an empty string.
-2146233086	**ArgumentOutOfRangeException**	The *lcid* 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 term set**. 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
-2147024891	**UnauthorizedAccessException**	The current user has insufficient permissions to perform this operation.
-1	**TermStoreOperationException**	This operation is invalid in the orphaned terms term set. The operation failed.
-1	**TermStoreOperationException**	Keywords are not allowed to be reused.
-1	**TermStoreOperationException**	Reusing a deprecated **Term** is not allowed.
-1	**TermStoreOperationException**	Terms cannot be shared multiple times in the same term set.
-1	**TermStoreOperationException**	The target **TermSet** cannot be the keywords term set or the orphaned terms term set.
-2147467261	**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
-2147024809	**ArgumentException**	The *pagingLimit* 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. 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 **Term** and **TermSet** 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**.

The ContentTypePublishingHub property is not included in the **default scalar property set** for this type.

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: CSOM array of CSOM Int32

Accessibility: Read Only

Gets an integer collection of **language code identifiers (LCIDs)** that represent the working languages for this **TermStore** (section 3.1.5.23).

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** used as the **content type** syndication hub<1>, 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** will be returned if it exists. A farm admin is a farm administrator who can manage the configuration of the full farm. A tenant admin is a tenant administrator who can manage the configuration of farm administrator-delegated features and can manage all sites for their subscription from a single place, the tenant administration site.

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**)

3.1.5.23.1.2.5   HashTagsTermSet

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), which contains the set of #tags.

Remarks:

The #tags are used in microblogging and newsfeeds.

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.

CommitAll is automatically called during each **ExecuteQuery** command, which is used to execute the current set of data retrieval queries and method invocations.

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
-2147024891	**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
-1	**TermStoreOperationException**	The last language cannot be deleted.
-1	**TermStoreOperationException**	The default language cannot be deleted.
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.

3.1.5.23.2.1.4   RollbackAll

Return Type: None

Discards all updates that have occurred since the last commit or rollback.

Remarks:

When objects are edited in the **TermStore** (section 3.1.5.23) 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** (section 3.1.5.23.2.1.1) method or **RollbackAll** (section 3.1.5.23.2.1.4) method is called. If **TermStore.RollbackAll** is called, the updates that were made since the last **TermStore.CommitAll** or **TermStore.RollbackAll** are discarded.

CommitAll is automatically called for client-side code during each **ExecuteQuery** command which is used to execute the current set of data retrieval queries and method invocations.

Parameters: None

3.1.5.23.2.1.5 UpdateCache

Return Type: None

This method forces the taxonomy cache to communicate with the Managed Metadata Service to check for changes to any taxonomy objects in this **TermStore** (section 3.1.5.23).

Remarks:

A background thread already performs these checks at periodic intervals, so calling **UpdateCache** is normally unnecessary. However, it is sometimes useful immediately before a change (to reduce the likelihood of save conflict errors), or immediately after a change (if that change has been performed via a different Web Front End (WFE)).

Parameters: None

3.1.5.23.2.1.6 UpdateUsedTermsOnSite

Return Type: None

This method makes sure that the current **TermStore** (section 3.1.5.23) object is aware of all child **Term** (section 3.1.5.16) objects that are used in the requested **Site** ([MS-CSOMSPT] section 3.2.5.119).

Parameters:

site: The **Site** ([MS-CSOMSPT] section 3.2.5.119) to check against for **Term** usage.

Type: Microsoft.SharePoint.Client.Site

3.1.5.23.2.1.7 GetPackage

Return Type: CSOM Stream

This method gets the PRIME package ([MS-PRIMEPF]) for the requested ID and type of package.

Parameters:

packageId: The Id of the package. This value MUST be retrieved from the GetPackagesUpdateInformation method (section 3.1.5.23.2.1.8), from the value of the PId attribute.

Type: **CSOM String**

packageType: The type of the PRIME package. This value MUST be retrieved from the GetPackagesUpdateInformation method, from the value of the PType attribute.

Type: **CSOM GUID**

farmVersion: The version info of the farm. This parameter is for future use. You can pass in any values but those will be ignored.

Type: CSOM String

siteCompatibilityLevel: The site compatibility level. This parameter is for future use. You can pass in any values but those will be ignored.

Type: **CSOM Int32**

3.1.5.23.2.1.8 GetPackagesUpdateInformation

Return Type: CSOM Stream

This method gets the updated information of the package from a given time stamp. Returned information includes Package ID, type, and time stamp of the recent update in the XML document encoded with UTF8.

Here is the schema and example of the package update information:

example:

```
<?xml version="1.0" encoding="utf-8"?>
<Root>
  <P PId="0x00A7470EADF4194E2E9ED1031B61DA08840300312EAE4648F0D54192F4E2D30E8672CE"
PType="b4ad3a44-d934-4c91-8d1f-463aceade443" PP="true" />
  <P PId="0x00A7470EADF4194E2E9ED1031B61DA08840300F0FAAEABC1F97B4D91B93DC31470E055"
PType="b4ad3a44-d934-4c91-8d1f-463aceade443" PP="true" />
  <T>2017-06-02T02:10:51.997Z</T>
</Root>
```

schema:

```
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Root">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="P" maxOccurs="unbounded" minOccurs="0">
          <xs:complexType>
            <xs:simpleContent>
              <xs:extension base="xs:string">
                <xs:attribute type="xs:string" name="PId" use="required" />
                <xs:attribute type="xs:string" name="PType" use="required" />
                <xs:attribute type="xs:string" name="PP" use="required" />
              </xs:extension>
            </xs:simpleContent>
          </xs:complexType>
        </xs:element>
        <xs:element type="xs:dateTime" name="T" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

P is a package entry. PId is the content type package id, PType is the package type GUID, for content type, it is "b4ad3a44-d934-4c91-8d1f-463aceade443", PP means whether the package is published.

Parameters:

lastUpdateTime: Timestamp of the last known update.

Type: **CSOM DateTime**

3.1.5.23.2.1.9 UploadPackages

Return Type: None

This method uploads the content type of the PRIME package.

Parameters:

packageId: The Id of the package. This value MUST be retrieved from the GetPackagesUpdateInformation method, from the value of the PId attribute.

Type: **CSOM String**

stream: The compressed content type of the PRIME package.

Type: **CSOM Stream**

farmVersion: The version info of the farm. This parameter is for future use. You can pass in any values but those will be ignored.

Type: CSOM String

siteCompatibilityLevel: The site compatibility level. This parameter is for future use. You can pass in any values but those will be ignored.

Type: **CSOM Int32**

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).

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
-2147024891	**UnauthorizedAccessException**	The protocol client has insufficient permissions to perform this operation.
-2147024809	**ArgumentException**	The *name* parameter is not valid. It either contains invalid characters, or is too long.
-2147024809	**ArgumentException**	**TermGroup** names MUST be unique.
-2147467261	**ArgumentNullException**	The name cannot be **null** or empty.

Parameters:

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

Type: **CSOM String**

groupId: The identifier of the new **TermGroup** being created.

Type: **CSOM GUID**

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
-2147467261	**ArgumentNullException**	The *id* 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 does 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
-2147467261	**ArgumentNullException**	The *termId* value cannot be **Guid.Empty**.

3.1.5.23.2.2.5 GetTerms

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

Gets a collection of **Term** (section 3.1.5.16) objects 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 based on the label criteria provided.

Remarks:

The **LabelMatchInformation** values that are set MUST be one of these combinations:

- **LabelMatchInformation.TermLabel** and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, and **LabelMatchInformation.TrimUnavailable**.

- **LabelMatchInformation.TermLabel**, **LabelMatchInformation.Lcid**, **LabelMatchInformation.DefaultLabelOnly**, **LabelMatchInformation.StringMatchOption**, **LabelMatchInformation.ResultCollectionSize**, **LabelMatchInformation.TrimUnavailable**, **LabelMatchInformation.TrimDeprecated**, and **LabelMatchInformation.ExcludeKeyword**.

If the combination of **LabelMatchInformation** (section 3.1.5.30) values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **LabelMatchInformation.TermLabel** (section 3.1.5.30.1.1.6) cannot be null or empty, and MUST NOT exceed 255 characters in length. It also cannot contain any of the following illegal characters: ; " < > | & and the tab character.

The search is case-insensitive, and will match either the entire label or only check that it starts with the specified string depending on the value of the **LabelMatchInformation.StringMatchOption** (section 3.1.5.30.1.1.5) parameter. If the **LabelMatchInformation.StringMatchOption** is not set, it defaults to exact match.

If **LabelMatchInformation.TrimUnavailable** (section 3.1.5.30.1.1.8) is true, then terms that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all terms will be returned regardless of their **Term.IsAvailableForTagging** value.

If **LabelMatchInformation.Lcid** (section 3.1.5.30.1.1.3) is specified, then a **Term** will be returned if a **Label** in the specified **Lcid** matches the string provided. If no **Lcid** is specified, then all **Term.Labels** (section 3.1.5.16.1.2.1) in all working languages will be searched by this method. The **lcid** value MUST be one of the working languages of the **term store**, specified by **TermStore.Languages** (section 3.1.5.23.1.1.4).

If **LabelMatchInformation.DefaultLabelOnly** (section 3.1.5.30.1.1.1) is true, then only the default labels will be searched.

The maximum number of results returned from this search is restricted by the **LabelMatchInformation.ResultCollectionSize** (section 3.1.5.30.1.1.4) parameter. If **LabelMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

If **LabelMatchInformation.ExcludeKeyword** (section 3.1.5.30.1.1.2) is true, then **Term** objects in the **keywords term set** will be excluded from the search; otherwise, all terms, including keywords, will be included in the search.

If **LabelMatchInformation.TrimDeprecated** (section 3.1.5.30.1.1.7) is true, then terms that have **Term.IsDeprecated** (section 3.1.5.16.1.1.6) set to true will be trimmed from the results; otherwise, all terms will be returned regardless of their **Term.IsDeprecated** value.

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
-2147024809	**ArgumentException**	Incorrect combination of **LabelMatchInformation** settings provided.
-2147024809	**ArgumentException**	Invalid value provided for one of the **LabelMatchInformation** settings.
-2147024809	**ArgumentException**	The value of **LabelMatchInformation.TermLabel** is invalid. It either contains invalid characters or is too long.
-2147467261	**ArgumentNullException**	Some **LabelMatchInformation** settings cannot be **null** or empty.
-2147467261	**ArgumentNullException**	The **LabelMatchInformation.TermLabel** cannot be null or empty.
-2146233086	**ArgumentOutOfRangeException**	The **LabelMatchInformation.Lcid** value MUST be one of the working languages in the current **TermStore**.

Parameters:

labelMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.LabelMatchInformation

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   GetTermsWithCustomProperty

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

Gets a collection of all of the **Term** (section 3.1.5.16) objects, 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, that have a custom property matching the criteria provided.

Remarks:

The **CustomPropertyMatchInformation** (section 3.1.5.29) values that are set MUST be one of these combinations:

- **CustomPropertyMatchInformation.CustomPropertyName** and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.ResultCollectionSize**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, and **CustomPropertyMatchInformation.TrimUnavailable**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, **CustomPropertyMatchInformation.ResultCollectionSize**, and **CustomPropertyMatchInformation.TrimUnavailable**.

If the combination of **CustomPropertyMatchInformation** values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **CustomPropertyMatchInformation.CustomPropertyName** (section 3.1.5.29.1.1.1) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain any of the following illegal characters: ; " < > | & tab

The **CustomPropertyMatchInformation.CustomPropertyValue** (section 3.1.5.29.1.1.2) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain the illegal characters \t or \n.

The search is case-insensitive, and will match either the entire value or the custom property name or value, or only check that it starts with the specified string depending on the value of the **CustomPropertyMatchInformation.StringMatchOption** (section 3.1.5.29.1.1.4) parameter. If the **CustomPropertyMatchInformation.StringMatchOption** is not set, it defaults to exact match.

The **CustomPropertyMatchInformation.ResultCollectionSize** (section 3.1.5.29.1.1.3) value MUST be greater than 0. The maximum number of results returned from this search is restricted by the **CustomPropertyMatchInformation.ResultCollectionSize** parameter. If

CustomPropertyMatchInformation.ResultCollectionSize is not set, then a maximum of 100 results is returned.

If **CustomPropertyMatchInformation.TrimUnavailable** (section 3.1.5.29.1.1.5) is set to true, then **Term** objects that have **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) set to false will be trimmed from the results; otherwise, all matching terms will be returned regardless of their **Term.IsAvailableForTagging** value.

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
-2147024809	**ArgumentException**	Incorrect combination of **CustomPropertyMatchInformation** settings provided.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyName** is invalid. It either contains invalid characters or is too long.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It exceeds the maximum allowed length of 255.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It contains invalid character '\t', '\n', or both.
-2147467261	**ArgumentNullException**	Some **CustomPropertyMatchInformation** settings MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyName** MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyValue** MUST NOT be **null** or empty.
-2146233086	**ArgumentOutOfRangeException**	The **CustomPropertyMatchInformation.ResultCollectionSize** is invalid. It MUST be greater than 0.

Parameters:

customPropertyMatchInformation: Indicates the search criteria to use when retrieving **Term** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

3.1.5.23.2.2.8   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

Microsoft.SharePoint.Client.Site is specified in [MS-CSOMSPT] section 3.2.5.119.

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**

3.1.5.23.2.2.9   GetTermInTermSet

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

Gets a **Term** (section 3.1.5.16) object that is retrieved based on the **Id** (section 3.1.5.20.1.1.6) of the **TermSet** (section 3.1.5.20) object and the **Id** (section 3.1.5.16.1.1.4) of the **Term**. Returns null if the **Term** cannot be found or if the user does not have sufficient permissions to access the **Term**.

Parameters:

termSetId: The **Id** (section 3.1.5.20.1.1.6) of the **TermSet** that the **Term** is a member of.

Type: **CSOM GUID**

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

Type: CSOM GUID

3.1.5.23.2.2.10   GetTermsById

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

Gets a collection of **Term** (section 3.1.5.16) objects that are based on the **Id** (section 3.1.5.16.1.1.4) of the **Term**, or an empty collection or **null** if no terms match.

Remarks:

If a **Term** is a member of multiple **TermSet** (section 3.1.5.20) objects, it arbitrarily returns the **Term** from one of the **TermSet** objects. If an **ID** from the *termIds* parameter cannot be matched against the **ID** of a **Term** in this **TermStore** (section 3.1.5.23) object or if the user does not have sufficient permissions to access it, the **Term** will not be included in the result collection that is returned. This method searches for the **Term** across all of the child **TermGroup** (section 3.1.5.18) objects and **TermSet** objects that the user has permissions to read.

If the *termIds* parameter contains entries with the same ID, the returned item collection also contains duplicates. If this search finds no terms, then either **null** or an empty collection will be returned.

Exceptions:

Error Code	Error Type Name	Condition
-2147467261	**ArgumentNullException**	The *termIds* parameter cannot be **null**.

Parameters:

termIds: The **Ids** (section 3.1.5.16.1.1.4) of the **Term** objects to be retrieved.

Type: **CSOM array** of **CSOM GUID**

3.1.5.23.2.2.11   GetTermSetsByName

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

This method retrieves a collection of all **TermSet** (section 3.1.5.20) objects 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 LCID.

Remarks:

The *termSetName* parameter cannot be null or empty, and MUST NOT exceed 255 characters in length. It also cannot contain any of the following illegal characters: ; " < > | & and the tab character. The search is case-insensitive.

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
-2147467261	**ArgumentNullException**	The *termSetName* parameter cannot be **null** or empty.
-2147024809	**ArgumentException**	The value of the *termSetName* parameter is invalid. It contains invalid characters or is too long.

Parameters:

termSetName: The **Name** (section 3.1.5.20.1.1.10) of the **TermSet** to be retrieved.

Type: **CSOM String**

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

Type: **CSOM Int32**

3.1.5.23.2.2.12   GetTermSetsByTermLabel

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

This method retrieves a collection of all **TermSet** (section 3.1.5.20) objects in this **TermStore** (section 3.1.5.23) that the current user has permissions to read that contain **Term** (section 3.1.5.16) objects with labels matching or starting with each of the specified strings for a specified LCID.

Remarks:

The value of the labels in *requiredTermLabels* cannot be null or empty, and MUST NOT exceed 255 characters in length. They also MUST NOT contain any of the following illegal characters ; " < > | & tab. The *lcid* value MUST be one of the working languages of the term store, specified by **TermStore.Languages** (section 3.1.5.23.1.1.4). The search is case-insensitive. A **TermSet** will be included in the returned collection if, for each label value in *requiredTermLabels*, the **TermSet** contains a **Term** with a label that matches or starts with the value for the specified *lcid*. There is no requirement for a single **Term** to contain all of the specified labels. 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
-2147467261	**ArgumentNullException**	The *requiredTermLabels* value cannot be **null**.
-2147467261	**ArgumentNullException**	The labels in *requiredTermLabels* cannot be **null** or empty.
-2147024809	**ArgumentException**	The value of one or more labels in *requiredTermLabels* is invalid. It probably contains invalid characters or is too long.
-2146233086	**ArgumentOutOfRangeException**	The *lcid* value MUST be one of the working languages in the current term store.

Parameters:

requiredTermLabels: A set of labels to match against the **Term.Labels** (section 3.1.5.16.1.2.1) of each **TermSet**.

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

lcid: The language code identifier (LCID) for the language of the **Term.Labels** to perform the matching on.

Type: **CSOM Int32**

3.1.5.23.2.2.13   GetTermSetsWithCustomProperty

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

Gets a collection of all of the **TermSet** (section 3.1.5.20) objects in this **TermStore** (section 3.1.5.23) that the current user has permissions to read, that have a custom property matching the criteria provided.

Remarks:

The **CustomPropertyMatchInformation** (section 3.1.5.29) values that are set MUST be one of these combinations:

- **CustomPropertyMatchInformation.CustomPropertyName**.

- **CustomPropertyMatchInformation.CustomPropertyName** and **CustomPropertyMatchInformation.CustomPropertyValue**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, and **CustomPropertyMatchInformation.StringMatchOption**.

- **CustomPropertyMatchInformation.CustomPropertyName**, **CustomPropertyMatchInformation.CustomPropertyValue**, **CustomPropertyMatchInformation.StringMatchOption**, and **CustomPropertyMatchInformation.ResultCollectionSize**.

If the combination of **CustomPropertyMatchInformation** values is invalid, an **ArgumentException** or **ArgumentNullException** will be thrown indicating the invalid setting.

The **CustomPropertyMatchInformation.CustomPropertyName** (section [3.1.5.29.1.1.1](#)) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain any of the following illegal characters: ; " < > | & tab

The **CustomPropertyMatchInformation.CustomPropertyValue** (section [3.1.5.29.1.1.2](#)) MUST NOT be set to null or empty, and MUST NOT exceed 255 characters in length. It also MUST NOT contain the illegal characters \t or \n.

The search is case-insensitive, and will match either the entire value or the custom property name or value, or only check that it starts with the specified string depending on the value of the **CustomPropertyMatchInformation.StringMatchOption** (section [3.1.5.29.1.1.4](#)) parameter. If the **CustomPropertyMatchInformation.StringMatchOption** is not set, it defaults to exact match.

The **CustomPropertyMatchInformation.ResultCollectionSize** (section [3.1.5.29.1.1.3](#)) value MUST be greater than 0. The maximum number of results returned from this search is restricted by the **CustomPropertyMatchInformation.ResultCollectionSize** parameter. If **CustomPropertyMatchInformation.ResultCollectionSize** is not set, then a maximum of 100 results is returned.

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
-2147024809	**ArgumentException**	Incorrect combination of **CustomPropertyMatchInformation** settings provided.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyName** is invalid. It either contains invalid characters or is too long.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It exceeds the maximum allowed length of 255.
-2147024809	**ArgumentException**	The value of **CustomPropertyMatchInformation.CustomPropertyValue** is invalid. It contains invalid character '\t', '\n', or both.
-2147024809	**ArgumentException**	**CustomPropertyMatchInformation.TrimUnavailable** MUST NOT be set.
-2147467261	**ArgumentNullException**	Some **CustomPropertyMatchInformation** settings MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyName** MUST NOT be **null** or empty.
-2147467261	**ArgumentNullException**	The **CustomPropertyMatchInformation.CustomPropertyValue** MUST NOT be **null** or empty.
-2146233086	**ArgumentOutOfRangeException**	The **CustomPropertyMatchInformation.ResultCollectionSize** is invalid. It MUST be greater than 0.

Parameters:

customPropertyMatchInformation: Indicates the search criteria to use when retrieving **TermSet** objects.

Type: Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

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. A mobile page is a page that can be accessed by a **mobile device**.

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

A **Boolean** value that indicates whether the current **MobileTaxonomyField** (section 3.1.5.25) object is 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: CSOM TimeSpan

Accessibility: Read/Write

Specifies a time span within which changes are 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**, the client MUST call the **Update** (section 3.1.5.27.2.1.5) method for the change to take effect in the database.

The NoCrawl and SchemaXmlWithResourceTokens properties are not included in the **default scalar property set** for this type.

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 **keywords term set**, because it 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).

Microsoft.SharePoint.Client.FieldType is specified in [MS-CSOMSPT] section 3.2.5.58.

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

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 returns **true** if the **TaxonomyField** (section 3.1.5.27) points to the **keywords term set** (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 **keywords term set** (section 3.1.5.20) object.

Remarks:

The keywords term set is open and cannot contain hierarchical taxonomies. A **TaxonomyField** object that points to the keywords term set 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 keywords term set 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 the **IsPathRendered** property is set, the **Update** (section 3.1.5.27.2.1.5) method MUST be called 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 returns **true** if the **TermSetId** property points to the **keywords term set**.

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 **website** 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 by users that do not have permissions to normally add to the **TermSet**. It is closed if new terms cannot be added to it by users that do not have permissions.

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**.

Microsoft.SharePoint.Client.RelationshipDeleteBehaviorType is specified in [MS-CSOMSPT] section 3.2.5.109.

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) when editing or creating **list items**.

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 **website** 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/Write

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** 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**, 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 Only

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 or sets 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** 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.

3.1.5.27.1.1.46   EntityPropertyName

Type: CSOM String

Accessibility: Read Only

Gets the name of the entity property for the **list item** entity which uses this **field**.

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

3.1.5.27.1.1.47   JSLink

Type: CSOM String

Accessibility: Read/Write

Gets the name of an external ECMAScript ([ECMA-262-1999]) file containing any logic for this **field**.

3.1.5.27.1.1.48   SchemaXmlWithResourceTokens

Type: CSOM String

Accessibility: Read Only

Gets the schema XML for the content type containing **resource tokens**.

3.1.5.27.1.1.49   AutoIndexed

Type: CSOM Boolean

Accessibility: Read Only

Gets a **Boolean** value that specifies whether the **TaxonomyField** (section 3.1.5.27) object is auto indexed.

3.1.5.27.1.1.50   ClientSideComponentId

Type: CSOM GUID

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.31

3.1.5.27.1.1.51 ClientSideComponentProperties

Type: CSOM String

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.32

3.1.5.27.1.1.52 CustomFormatter

Type: CSOM String

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.33

3.1.5.27.1.1.53 DefaultFormula

Type: CSOM String

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.34

3.1.5.27.1.1.54 DependentLookupInternalNames

Type: CSOM array of CSOM String

Accessibility: Read Only

See [MS-CSOMSPT] section 3.2.5.49.1.1.42

3.1.5.27.1.1.55 IsDependentLookup

Type: CSOM Boolean

Accessibility: Read Only

See [MS-CSOMSPT] section 3.2.5.49.1.1.43

3.1.5.27.1.1.56 NoCrawl

Type: CSOM Boolean

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.35

3.1.5.27.1.1.57 PinnedToFiltersPane

Type: CSOM Boolean

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.36

3.1.5.27.1.1.58 ShowInFiltersPane

Type: Microsoft.SharePoint.Client.ShowInFiltersPaneStatus

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.37.1.1.37

3.1.5.27.1.1.59   UnlimitedLengthInDocumentLibrary

Type: CSOM Boolean

Accessibility: Read/Write

See [MS-CSOMSPT] section 3.2.5.49.1.1.47

3.1.5.27.1.2 ObjectPath Properties

3.1.5.27.1.2.1   DefaultValueTyped

Type: CSOM 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   DescriptionResource

Type: Microsoft.SharePoint.Client.UserResource

Accessibility: Read Only

Gets the resource object corresponding to the Description property for the **TaxonomyField** (section 3.1.5.27).

3.1.5.27.1.2.3   TitleResource

Type: Microsoft.SharePoint.Client.UserResource

Accessibility: Read Only

Gets the resource object corresponding to the Title property for the **TaxonomyField** (section 3.1.5.27).

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 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: **CSOM 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** (see **Microsoft.SharePoint.Client.FieldLookupValue** as specified in [MS-CSOMSPT] section 3.2.5.50), 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** (a CSOM array of **SPFieldLookupValue**) 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: **CSOM Object**

Remarks:

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

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The *value* parameter was of a type other than **TaxonomyFieldValue** or **TaxonomyFieldValueCollection**.

3.1.5.27.2.1.4 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: **CSOM 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
-1	**SPFieldValidationException**	The *value* parameter contains a **TaxonomyFieldValue** object with an invalid **Term** (section 3.1.5.16) **GUID**.

3.1.5.27.2.1.5 Update

Return Type: None

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

Parameters: None

3.1.5.27.2.1.6 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.

3.1.5.27.2.1.7   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**

3.1.5.27.2.1.8   GetFieldValueAsTaxonomyFieldValue

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

Converts the specified string value into a **TaxonomyFieldValue** (section 3.1.5.13) object.

Remarks:

The value parameter string MUST consist of an internal identifier, a label, and a path: [ID;#LABEL|PATH].

[ID] is the internal identifier of the **list item**.

[LABEL] is the default **Label** of the corresponding **Term** (section 3.1.5.16) in the **TermStore** (section 3.1.5.23).

[PATH] is a string of **GUIDs** delimited by a pipe (|) character and terminating in the GUID that identifies the **Term**: [ROOT_TERM_GUID|...|PARENT_TERM_GUID|TERM_GUID].

For example, [id;#label|path] represents a single value.

Exceptions:

Error Code	Error Type Name	Condition
-1	**SPFieldValidationException**	The given GUID does not exist in the **TermStore**.

Parameters:

value: A formatted string containing identifier, label, and path information to convert into a **TaxonomyFieldValue**.

Type: **CSOM String**

3.1.5.27.2.1.9 SetFieldValueByCollection

Return Type: None

Sets the value of the corresponding multi-value field in the **list item** to the properties of the **Term** (section 3.1.5.16) objects in the specified collection, in the specified language.

Remarks:

Each **Term** has a maximum of one default **Label** (section 3.1.5.10) for every language in the **TermStore** (section 3.1.5.23) object. For each **Term**, the default **Label** in the default language of the **TermStore** object is used.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	One or more arguments to this method are null, or the **TaxonomyField** (section 3.1.5.27) object does not allow multiple values.

Parameters:

item: The **ListItem** ([MS-CSOMSPT] section 3.2.5.87) object whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

terms: The collection of **Term** objects whose properties are to be used to update the field value.

Type: **CSOM array** of Microsoft.SharePoint.Client.Taxonomy.Term

lcid: The **language code identifier (LCID)** of the language of the default **Label** objects to use.

Type: **CSOM Int32**

3.1.5.27.2.1.10 SetFieldValueByTerm

Return Type: None

Sets the value of the corresponding field in the **list item** to the properties of the specified **Term** (section 3.1.5.16) in the specified language.

Remarks:

A **Term** has a maximum of one default **Label** (section 3.1.5.10) for every new language in the **TermStore** (section 3.1.5.23) object. The default **Label** used by this method is the default **Label** of the **Term** in the language specified by the *lcid* parameter, if one exists; otherwise, the default language of the **TermStore** is used.

If the **AllowMultipleValues** (section 3.1.5.27.1.1.1) property is true, the field will be assigned a **TaxonomyFieldValueCollection** (section 3.1.5.28) object. Otherwise, it will be assigned a **TaxonomyFieldValue** (section 3.1.5.13) object.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	One or more arguments to this method are **null**.

Parameters:

item: The **ListItem** ([MS-CSOMSPT] section 3.2.5.87) object whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

term: The **Term** object whose properties are used to update the field value.

Type: Microsoft.SharePoint.Client.Taxonomy.Term

lcid: The **language code identifier (LCID)** of the language of the default **Label** to use.

Type: **CSOM Int32**

3.1.5.27.2.1.11   SetFieldValueByTermCollection

Return Type: None

Sets the value of the corresponding multi-value field in the **list item** to the properties of the **Term** (section 3.1.5.16) objects in the specified collection, in the specified language.

Remarks:

Each **Term** has a maximum of one default **Label** (section 3.1.5.10) for every language in the **TermStore** (section 3.1.5.23) object. For each **Term**, the default **Label** in the default language of the **TermStore** is used.

The field will be assigned a **TaxonomyFieldValueCollection** (section 3.1.5.28) object.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	One or more arguments to this method are **null**, or the **TaxonomyField** (section 3.1.5.27) object does not allow multiple values.

Parameters:

item: The **ListItem** ([MS-CSOMSPT] section 3.2.5.87) object whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

terms: The collection of **Term** objects whose properties are to be used to update the field value.

Type: Microsoft.SharePoint.Client.Taxonomy.TermCollection

lcid: The **language code identifier (LCID)** of the language of the default **Label** objects to use.

Type: **CSOM Int32**

3.1.5.27.2.1.12 SetFieldValueByValue

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.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	One or more arguments to this method are **null**.

Parameters:

item: The **ListItem** ([MS-CSOMSPT] section 3.2.5.87) object whose field is to be updated.

Type: Microsoft.SharePoint.Client.ListItem

Microsoft.SharePoint.Client.ListItem is specified in [MS-CSOMSPT] section 3.2.5.87.

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

Type: Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValue

3.1.5.27.2.1.13 SetFieldValueByValueCollection

Return Type: None

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

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	One or more arguments to this method are **null**.
-1	**NotSupportedException**	The field is not multi-valued.

Parameters:

item: The **ListItem** ([MS-CSOMSPT] section 3.2.5.87) 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 field.

Type: Microsoft.SharePoint.Client.Taxonomy.TaxonomyFieldValueCollection

3.1.5.27.2.1.14   SetShowInDisplayForm

Return Type: None

Sets the corresponding field on the **list item** such that the field will be displayed in the **display form**.

Parameters:

value: A Boolean value that, when set to **true,** enables the field to be displayed in the display form. A value of **false** causes the field to not be displayed in the display form.

Type: **CSOM Boolean**

3.1.5.27.2.1.15   SetShowInEditForm

Return Type: None

Sets the corresponding field on the **list item** such that the field will be displayed in the **edit form**.

Parameters:

value: A Boolean value that, when set to **true**, enables the field to be displayed in the edit form. A value of **false** causes the field to not be displayed in the edit form.

Type: **CSOM Boolean**

3.1.5.27.2.1.16   SetShowInNewForm

Return Type: None

Sets the corresponding field on the **list item** such that the field will be displayed in the **new form**.

Parameters:

value: A Boolean that, when set to **true,** enables the field to be displayed in the new form. A value of **false** causes the field to not be displayed in the new form.

Type: **CSOM Boolean**

3.1.5.27.2.2 ObjectPath Methods

3.1.5.27.2.2.1   GetFieldValueAsTaxonomyFieldValueCollection

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

Converts the specified string value into a **TaxonomyFieldValueCollection** (section 3.1.5.28) object.

Remarks:

The value parameter string MUST be formatted as a series of one or more string tokens separated by the ;# delimiter. Each token consists of an internal identifier, a label, and a path; for example, [ID;#LABEL|PATH].

[ID] is the internal identifier of the **list item**.

[LABEL] is the default **Label** of the corresponding **Term** (section 3.1.5.16) in the **TermStore** (section 3.1.5.23).

[PATH] is a string of **GUIDs** delimited by a pipe (|) character and terminating in the GUID that identifies the **Term**: [ROOT_TERM_GUID|...|PARENT_TERM_GUID|TERM_GUID].

For example, the string [id1;#label1|path1;#id2;#label2|path2;#id3;#label3|path3] represents three **TaxonomyField** (section 3.1.5.27) values that can be parsed into a **TaxonomyFieldValueCollection** object.

The **AllowMultipleValues** (section 3.1.5.27.1.1.1) property determines whether the **TaxonomyField** object allows multiple values. If the **TaxonomyField** object does not allow multiple values, please use the **GetFieldValueAsTaxonomyFieldValue** (section 3.1.5.27.2.1.8) method instead.

Exceptions:

Error Code	Error Type Name	Condition
-1	**SPFieldValidationException**	The given GUID does not exist in the **TermStore**.
-1	**InvalidOperationException**	Invalid operation. This **TaxonomyField** does not allow multiple values.

Parameters:

value: A formatted string containing identifier, label, and path information to convert into a **TaxonomyFieldValueCollection**.

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. This entry can be repeated for multiple values by repeating the ;# characters. If this value is not bound to a field, **TermGuid** (section 3.1.5.13.1.1.2) can throw a MemberAccessException.

3.1.5.29   Microsoft.SharePoint.Client.Taxonomy.CustomPropertyMatchInformation

TypeId: {56747951-DF44-4BED-BF36-2B3BDDF587F9}

ShortName: SP.Taxonomy.CustomPropertyMatchInformation

This class is used as an input parameter for methods that retrieve objects based on specific custom property matching criteria.

Remarks:

For details about how to set each value of this class, please refer to the method that is using this class as an input parameter.

3.1.5.29.1   Properties

3.1.5.29.1.1 Scalar Properties

3.1.5.29.1.1.1   CustomPropertyName

Type: CSOM String

Accessibility: Read/Write

The custom property name with which to match.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The value cannot be set to **null**.

3.1.5.29.1.1.2   CustomPropertyValue

Type: CSOM String

Accessibility: Read/Write

The custom property value with which to match.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The value cannot be set to **null**.

3.1.5.29.1.1.3   ResultCollectionSize

Type: CSOM Int32

Accessibility: Read/Write

Indicates the maximum number of objects to include in the returned collection.

3.1.5.29.1.1.4   StringMatchOption

Type: Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

Accessibility: Read/Write

Indicates whether to search for custom property names and values that start with the specified strings, or search for those that exactly match the specified strings.

3.1.5.29.1.1.5   TrimUnavailable

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether to trim out **Term** (section 3.1.5.16) objects that have the **IsAvailableForTagging** (section 3.1.5.16.1.1.5) property set to false.

3.1.5.29.1.2 ObjectPath Properties

None.

3.1.5.29.2   Methods

3.1.5.29.2.1 Scalar Methods

None.

3.1.5.29.2.2 ObjectPath Methods

3.1.5.29.2.2.1   CSOM Constructor

Constructs an instance of a **CustomPropertyMatchInformation** (section 3.1.5.29) object with no values set.

Parameters: None

3.1.5.30   Microsoft.SharePoint.Client.Taxonomy.LabelMatchInformation

TypeId: {61A1D689-2744-4EA3-A88B-C95BEE9803AA}

ShortName: SP.Taxonomy.LabelMatchInformation

This class is used as an input parameter for methods that retrieve objects based on specific label matching criteria.

For details about how to set each value of this class, please refer to the method that is using this class as an input parameter.

3.1.5.30.1   Properties

3.1.5.30.1.1 Scalar Properties

3.1.5.30.1.1.1   DefaultLabelOnly

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether only default labels need to be matched against in the search.

3.1.5.30.1.1.2   ExcludeKeyword

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether to exclude **Term** (section 3.1.5.16) objects that are in the keywords **term set** (section 3.1.5.20).

3.1.5.30.1.1.3   Lcid

Type: CSOM Int32

Accessibility: Read/Write

The **language code identifier (LCID)** of the **Term.Labels** (section 3.1.5.16.1.2.1) to be matched.

3.1.5.30.1.1.4   ResultCollectionSize

Type: CSOM Int32

Accessibility: Read/Write

Indicates the maximum number of objects to include in the returned collection.

3.1.5.30.1.1.5   StringMatchOption

Type: Microsoft.SharePoint.Client.Taxonomy.StringMatchOption

Accessibility: Read/Write

Indicates whether to search for **Term.Labels** (section 3.1.5.16.1.2.1) that start with the specified string, or those that have an exact match.

3.1.5.30.1.1.6   TermLabel

Type: CSOM String

Accessibility: Read/Write

The **Label** (section 3.1.5.10) of the **Term** (section 3.1.5.16) to get or set.

Exceptions:

Error Code	Error Type Name	Condition
-2147024809	**ArgumentException**	The value cannot be **null**.

3.1.5.30.1.1.7   TrimDeprecated

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether to trim out **Term** (section 3.1.5.16) objects that have **Term.IsDeprecated** (section 3.1.5.16.1.1.6) set to true.

3.1.5.30.1.1.8   TrimUnavailable

Type: CSOM Boolean

Accessibility: Read/Write

Indicates whether to trim out **Term** (section 3.1.5.16) objects that have the **Term.IsAvailableForTagging** (section 3.1.5.16.1.1.5) property set to false.

3.1.5.30.1.2 ObjectPath Properties

None.

3.1.5.30.2   Methods

3.1.5.30.2.1 Scalar Methods

None.

3.1.5.30.2.2 ObjectPath Methods

3.1.5.30.2.2.1   CSOM Constructor

Constructs an instance of a **LabelMatchInformation** (section 3.1.5.30) object with no values set.

Parameters: None

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 as needed. 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 **TermStoreCollection** object.

2. The **CreateGroup** method is called on the **TermStore** object to create the "Conferences" group.

3. The **CreateTermSet** method is called on the **TermGroup** 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>
          <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-aa1cd275e024}</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:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz"
},21,{
"IsNull":false
},22,{
"_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVzrhwWY4yj
O0yXa3H3ZQb9Ww=="
},24,{
"IsNull":false
},25,{
"_ObjectIdentity_":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\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
kUCYYJ+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+Ye3bDlT
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,{
"IsNull":false
},14,{
"_ObjectType_":"SP.Taxonomy.TermCollection","_Child_Items_":[
{
" ObjectType ":"SP.Taxonomy.Term"," ObjectIdentity ":"fec14c62-7c3b-481b-
c80d7802b224:te:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz5oott6bm
\u002fkeC2AmfBw\u002fdNw==","Name":"Auditorium C"
}
]
}
]
```

4.3   Add a New Term

In this example, the protocol client adds a new term named "Hall D" to the conference rooms term set on the protocol server. The term will be added under the "Halls" term.

In the following operation, the protocol client retrieves the **Term** object (section 3.1.5.16) for "Halls" 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="91" ObjectPathId="90" />
        <ObjectIdentityQuery Id="92" ObjectPathId="90" />
    </Actions>
    <ObjectPaths>
        <Method Id="90" ParentId="9" Name="GetTerm">
            <Parameters>
            </Parameters>
        </Method>
        <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUAnlkq7BYswGJADmQ==" />
    </ObjectPaths>
</Request>
```

The protocol server returns the **Term** object for "Halls."

Response:

```
[
{
"SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3410.1000","ErrorInfo":null
},91,{
"IsNull":false
},92,{
```

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```
" ObjectIdentity ":"fec14c62-7c3b-481b-851b-
c80d7802b224:te:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\u002fq+LO3BVz+wx3qgbr
kUCYYJ+2kTpPzw=="
}
]
```

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+LO3BVzlgfVMu05
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">{b72d8ae6-e6a6-47fe-82d8-099f070fdd37}</Parameter>
            </Parameters>
        </Method>
        <Identity Id="9" Name="fec14c62-7c3b-481b-851b-
c80d7802b224:st:TKE6KUAnlkq7BYswGJADmQ==" />
    </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:TKE6KUAnlkq7BYswGJADmQGpI3ewiWBMvXAXIgOJxHR1yEPhPFo4TLE\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.

6   Appendix A: Product Behavior

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

- Microsoft SharePoint Server 2013

- Microsoft SharePoint Server 2016

- Microsoft SharePoint Server 2019

- Microsoft SharePoint Server Subscription Edition

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

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

<1> Section 3.1.5.23.1.1.7: Content type syndication hub is a feature of SharePoint Server 2013, which provisions a site to be an Enterprise Metadata hub site.

7 Change Tracking

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

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

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

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

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

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

Section	Description	Revision class
6 Appendix A: Product Behavior	Updated list of supported products.	Major

8 Index