

[MS-SRCHCSOM]:

Search Client Query Protocol

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Preliminary

Revision Summary

| Date | Revision History | Revision Class | Comments |
|------------|------------------|----------------|--|
| 1/20/2012 | 0.1 | New | Released new document. |
| 4/11/2012 | 0.1 | No Change | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 0.1 | No Change | No changes to the meaning, language, or formatting of the technical content. |
| 9/12/2012 | 0.1 | No Change | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 1.0 | Major | Significantly changed the technical content. |
| 2/11/2013 | 1.0 | No Change | No changes to the meaning, language, or formatting of the technical content. |
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| 7/31/2014 | 2.1 | Minor | Clarified the meaning of the technical content. |
| 8/24/2015 | 3.0 | Major | Significantly changed the technical content. |

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1 Introduction

The Search Client Query Protocol provides types, methods, and properties to enable a protocol client to issue search queries against a protocol server hosting a search service application.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [\[RFC2119\]](#). Sections 1.5 and 1.9 are also normative but do not contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are specific to this document:

content source: A set of options for specifying the type of content to be crawled and the start addresses for the content to be indexed. A content source is defined by the protocol handler that is used to access specific systems, such as SharePoint sites, file systems, and external websites. A content source can contain up to 500 start addresses.

context: A collection of context properties that describe an execution environment.

crawled property: A type of metadata that can be discovered during a crawl and applied to one or more items. It can be promoted to a managed property. See also **managed property**.

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 binary: An array of 8-bit, unsigned integers that can be used in an XML request or as a string in **JSON** response text.

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 Double: A 64-bit, double-precision, floating-point value, which is the DOUBLE 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 Double values is from "-1.79769313486232e308" to "1.79769313486232e308".

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 Int16: A 16-bit, signed integer value, which is the INT16 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 Int16 values is from "-32768" to "32767".

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

CSOM Int64: A 64-bit, signed integer value, which is the INT64 type described in [MS-DTYP], that can be used in an XML request or as a number in **JSON** response text. The range of CSOM Int64 values is from "-9223372036854775808" to "9223372036854775807".

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

endpoint: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

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).

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 [\[RFC4627\]](#). The JSON format is based on the structure of ECMAScript (Jscript, JavaScript) objects.

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.

managed property: A specific property that is part of a metadata schema. It can be exposed for use in search queries that are executed from the user interface.

permission: A rule that is associated with an object and that regulates which users can gain access to the object and in what manner. See also rights.

post-query suggestions: An alternative search query that is related to the search query that was executed.

pre-query suggestions: A search query that is related to the search query that the user is typing.

query: A formalized instruction to a data source to either extract data or perform a specified action. A query can be in the form of a query expression, a method-based query, or a combination of the two. The data source can be in different forms, such as a relational database, XML document, or in-memory object. See also **search query**.

query result: A result that is returned for a query. It contains the title and URL of the item, and can also contain other managed properties and a hit-highlighted summary.

query rule: A setting that consists of a keyword condition and an action performed to provide the most relevant search results.

ranking model: In a search query, a set of weights and numerical parameters that are used to compute a ranking score for each item. All items share the same ranking model for a specific set of search results. See also rank.

relevance judgment: A numeric evaluation of the applicability and correspondence of a search result to a search query that falls within the range of 1-5 inclusive with 5 being the most relevant and 1 being the least relevant.

result source: A local or remote search catalog, a remote Exchange search endpoint or an OpenSearch1.0/1.1-compliant search engine that may include a list of attributes that defines a set of search results for a search query.

search query: A complete set of conditions that are used to generate search results, including query text, sort order, and ranking parameters.

search service application: A shared service application that provides indexing and querying capabilities.

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.

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 [\[RFC1738\]](#).

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

1.2 References

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

1.2.1 Normative References

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

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

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

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

[MS-QSSWS] Microsoft Corporation, "[Search Query Shared Services Protocol](#)".

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

[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>

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", BCP 47, RFC 3066, January 2001, <http://www.ietf.org/rfc/rfc3066.txt>

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

1.2.2 Informative References

None.

1.3 Overview

This protocol allows a protocol client to issue **search queries** against a protocol server hosting a **search service application**.

Typical scenarios for using this protocol include:

- A protocol client issues a search query to the protocol server, and the protocol server responds with **query results**.
- A protocol client issues a search query to the protocol server, and the protocol server responds with **pre-query suggestions** or **post-query suggestions**.
- A protocol client notifies the protocol server of errors encountered on the protocol client and timing of protocol client processing stages. The protocol server records these errors and time intervals for logging.

1.4 Relationship to Other Protocols

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

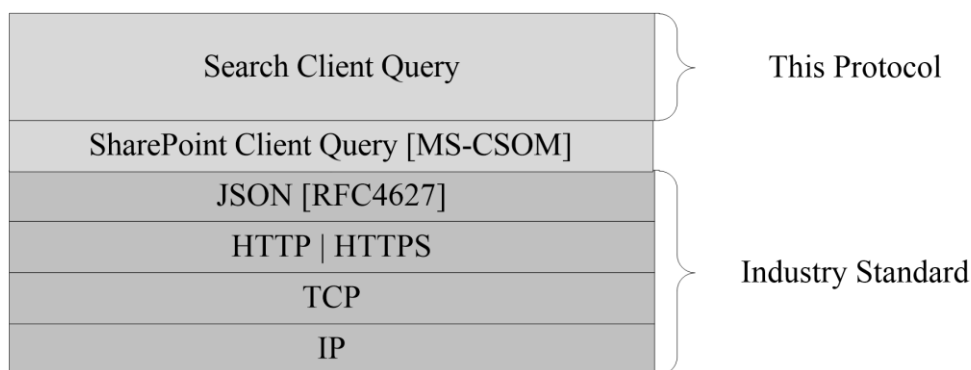


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint Uniform Resource Identifiers (URIs)** that are known by protocol clients.

This protocol assumes that authentication has been performed by underlying protocols.

This protocol requires the protocol client to have appropriate **permission** to call the methods on the protocol server.

1.6 Applicability Statement

This protocol can be used by a protocol client to issue search queries against a protocol server hosting a search service application.

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

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

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

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

2.2 Message Syntax

2.2.1 Namespaces

None.

2.2.2 Common Exceptions

A protocol server hosting the search service application MUST validate the request from the protocol client. When a protocol server processes a CSOM operation in the request, the following table lists common exceptions that could occur when accessing or updating a property or invoking a method.

| Error Code | Error Type Name | Condition |
|-----------------|------------------------------------|---|
| - 2147024891 | System.UnauthorizedAccessException | The user does not have permission to access a property, update a property or call a method. |

Besides the preceding exceptions and the exceptions that are listed for the specific properties or methods, the protocol server can return other exceptions to the protocol client, for which the protocol client could use the error message for display purpose but could not use the error code or error type to determine the causes of the exception.

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

3 Protocol Details

3.1 Server Details

3.1.1 Abstract Data Model

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

This protocol deals with various objects associated with Search Service to execute a search query for storing verbose query monitoring data or to store query log data and other objects as specified in [\[MS-QSSWS\]](#).

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.Office.Server.Search.REST.CustomResult

TypeId: {B3EB596A-C665-4B31-AFBE-BBF07EB1B70D}

ShortName: Microsoft.Office.Server.Search.REST.CustomResult

CustomResult is a ResultTable, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

The TableType property MUST be of any result table type as specified in [\[MS-QSSWS\]](#) section 2.2.5.5 except:

- RelevantResults
- RefinementResults
- SpecialTermResults

3.1.5.1.1 Properties

3.1.5.1.1.1 Scalar Properties

3.1.5.1.1.1.1 TableType

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.2 Properties

Type: CSOM dictionary

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.3 GroupTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.4 ItemTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.5 ResultTitle

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.6 ResultTitleUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.1.1.1.7 Table

Type: Microsoft.SharePoint.Client.SimpleDataTable

Accessibility: Read/Write

As specified in [\[MS-CSOMREST\]](#) section 3.1.5.1.3.3

Contains the list of query result hits.

3.1.5.1.1.2 ObjectPath Properties

None.

3.1.5.2 Microsoft.Office.Server.Search.REST.QueryResult

TypeId: {5DA4B313-CA4A-4BC7-B9DE-98EA5F4E727B}

ShortName: Microsoft.Office.Server.Search.REST.QueryResult

The **QueryResult** type is a grouping of result tables, where each contained result table is a **ResultTable** as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

All result tables contained in the same **QueryResult** MUST share the same **QueryId** (section [3.1.5.2.1.1.2](#)).

A **QueryResult** structure accessed by the **PrimaryQueryResult** property (section [3.1.5.6.1.1.2](#)) of a **SearchResult** structure (section [3.1.5.6](#)) MUST NOT be associated with a **query rule**, and MUST have the **QueryRuleId** (section [3.1.5.2.1.1.3](#)) populated with the value {00000000-0000-0000-0000-000000000000}.

Each **QueryResult** structure contained in the **SecondaryQueryResults** (section [3.1.5.6.1.1.3](#)) of the **SearchResult** (section 3.1.5.6) structure MUST be associated with an individual query rule, and MUST have the **QueryRuleId** (section 3.1.5.2.1.1.3) populated with a value other than {00000000-0000-0000-0000-000000000000}.

A valid QueryResult MUST have one or more result tables accessed through one or more of the following properties:

- CustomResults
- RefinementResults
- RelevantResults
- SpecialTermResults

CustomResults is a CSOM Array that contains zero or more CustomResult instances. A CustomResult instance is a ResultTable with ResultType of any kind (except RefinementResults, RelevantResults, and SpecialTermResults), as specified in [\[MS-QSSWS\]](#) section 2.2.5.5.

RefinementResult is a ResultTable with ResultType RefinementResults as specified in [\[MS-QSSWS\]](#) section 2.2.5.5.

RelevantResults is a ResultTable with ResultType RelevantResults as specified in [\[MS-QSSWS\]](#) section 2.2.5.5.

SpecialTermResults is a ResultTable with ResultType SpecialTermResults as specified in [\[MS-QSSWS\]](#) section 2.2.5.5.

3.1.5.2.1 Properties

3.1.5.2.1.1 Scalar Properties

3.1.5.2.1.1.1 CustomResults

Type: **CSOM array** of Microsoft.Office.Server.Search.REST.CustomResult

Accessibility: Read/Write

An array of CustomResult as specified in section [3.1.5.1](#).

3.1.5.2.1.1.2 QueryId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.2.1.1.3 QueryRuleId

Type: CSOM GUID

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.2.1.1.4 RefinementResults

Type: Microsoft.Office.Server.Search.REST.RefinementResults

Accessibility: Read/Write

As specified in section [3.1.5.3](#).

3.1.5.2.1.1.5 RelevantResults

Type: Microsoft.Office.Server.Search.REST.RelevantResults

Accessibility: Read/Write

As specified in section [3.1.5.4](#).

3.1.5.2.1.1.6 SpecialTermResults

Type: Microsoft.Office.Server.Search.REST.SpecialTermResults

Accessibility: Read/Write

As specified in section [3.1.5.25](#).

3.1.5.2.1.2 ObjectPath Properties

None.

3.1.5.3 Microsoft.Office.Server.Search.REST.RefinementResults

TypeId: {F3B3BFC2-9DD9-4F5E-BC53-0EF63E0709F6}

ShortName: Microsoft.Office.Server.Search.REST.RefinementResults

RefinementResults is a RefinementResults Table, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1 Properties

3.1.5.3.1.1 Scalar Properties

3.1.5.3.1.1.1 Refiners

Type: CSOM array of Microsoft.Office.Server.Search.REST.Refiner

Accessibility: Read/Write

Contains the list of refiners, as specified in section [3.1.5.30](#), for the search results.

3.1.5.3.1.1.2 Properties

Type: CSOM dictionary

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1.1.3 GroupTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1.1.4 ItemTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1.1.5 ResultTitle

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1.1.6 ResultTitleUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.3.1.2 ObjectPath Properties

None.

3.1.5.4 Microsoft.Office.Server.Search.REST.RelevantResults

TypeId: {755270DF-820C-430A-A609-1A6C415E88F1}

ShortName: Microsoft.Office.Server.Search.REST.RelevantResults

RelevantResults is a RelevantResults Table, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1 Properties

3.1.5.4.1.1 Scalar Properties

3.1.5.4.1.1.1 RowCount

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.2 TotalRows

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.3 Properties

Type: CSOM dictionary

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.4 GroupTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.5 ItemTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.6 ResultTitle

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.7 ResultTitleUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.1.8 Table

Type: Microsoft.SharePoint.Client.SimpleDataTable

Accessibility: Read/Write

As specified in [\[MS-CSOMREST\]](#) section 3.1.5.1.3.3

Contains the list of query result hits.

3.1.5.4.1.1.9 TotalRowsIncludingDuplicates

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.4.1.2 ObjectPath Properties

None.

3.1.5.5 Microsoft.Office.Server.Search.REST.SearchRequest

TypeId: {EFA6DBB5-FB02-41F8-B70F-E6C992FB86A9}

ShortName: Microsoft.Office.Server.Search.REST.SearchRequest

The **SearchRequest** structure defines the HTTP BODY of the HTTP POST postquery operation as specified in section [3.1.5.7.2.1.1](#). The postquery operation together with the **SearchRequest** structure is similar to the query operation as specified in section [3.1.5.7.2.1.2](#), and is provided as a means to overcome **Uniform Resource Locator (URL)** length limitations that some clients experience with HTTP GET operations.

3.1.5.5.1 Properties

3.1.5.5.1.1 Scalar Properties

3.1.5.5.1.1.1 Culture

Type: CSOM Int32

Accessibility: Read/Write

Specifies the identifier of the language culture of the search query. If present, the value MUST be a valid **language code identifier (LCID)** of a culture name, as specified in [\[RFC3066\]](#).

3.1.5.5.1.1.2 EnableInterleaving

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.3 EnableNicknames

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.4 EnablePhonetic

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.5 EnableStemming

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.6 HiddenConstraints

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.7 Querytext

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.8 RankingModelId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.9 RefinementFilters

Type: CSOM array of CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.10 Refiners

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.11 RowLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.12 RowsPerPage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.13 SelectProperties

Type: CSOM array of CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.14 SourceId

Type: CSOM GUID

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.15 StartRow

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.16 Timeout

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.17 TrimDuplicates

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.18 EnableFQL

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.19 BypassResultTypes

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.20 ClientType

Type: CSOM String

Accessibility: Read/Write

Specifies the type of the query client. It MUST be of **QueryLogClientType** data type as specified in [\[MS-QSSWS\]](#) section 3.1.4.11.4.1.

3.1.5.5.1.1.21 HitHighlightedProperties

Type: CSOM array of CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.22 ProcessBestBets

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.23 QueryTag

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.24 ResultsUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.25 TrimDuplicatesIncludeId

Type: **CSOM Int64**

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.26 BlockDedupeMode

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.27 CollapseSpecification

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.28 DesiredSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.29 EnableOrderingHitHighlightedProperty

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.30 EnableQueryRules

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether query rules are included when a search query is executed. If the value is true, query rules are applied to the search query. If the value is false, query rules MUST NOT be applied in the search query.

3.1.5.5.1.1.31 EnableSorting

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.32 GenerateBlockRankLog

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.33 HitHighlightedMultivaluePropertyLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.34 ImpressionId

Type: CSOM String

Accessibility: Read/Write

MUST NOT be used.

3.1.5.5.1.1.35 MaxSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.36 PersonalizationData

Type: CSOM GUID

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.37 ProcessPersonalFavorites

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11

3.1.5.5.1.1.38 Properties

Type: CSOM array of Microsoft.Office.Server.Search.REST.QueryProperty

Accessibility: Read/Write

Used to transport additional and custom search query data, in a name-value structure, from the caller to the server.

As specified in section [3.1.5.29](#).

3.1.5.5.1.1.39 QueryTemplate

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.40 ReorderingRules

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.ReorderingRule

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.41 SortList

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.Sort

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.5.1.1.42 SummaryLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.43 TotalRowsExactMinimum

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.44 UILanguage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.5.1.1.45 QueryTemplatePropertiesUrl

Type: CSOM String

Accessibility: Read/Write

Specifies an identifier which the protocol server MAY use to modify the client-specified **Properties** property (section [3.1.5.9.1.2.3](#)).

3.1.5.5.1.1.46 TimeZoneId

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section [3.1.4.1.3.6](#)

3.1.5.5.1.2 ObjectPath Properties

None.

3.1.5.6 Microsoft.Office.Server.Search.REST.SearchResult

TypeId: {C160DFA4-233A-4C58-88D4-9123B0A3D05B}

ShortName: Microsoft.Office.Server.Search.REST.SearchResult

The **SearchResult** structure resembles the **ResultTableCollection** structure (specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1). However, the individual result tables that share the same **QueryId** are grouped together in a **QueryResult** structure (specified in section [3.1.5.2](#)). The search result tables

that have exactly the same **QueryId** value as specified by the protocol client are grouped in the same **QueryResult** structure accessed through the **PrimaryQueryResult** property. All other **QueryResult** buckets are organized in a CSOM array of **QueryResults** accessed through the **SecondaryQueryResults** property.

3.1.5.6.1 Properties

3.1.5.6.1.1 Scalar Properties

3.1.5.6.1.1.1 ElapsedTime

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.6.1.1.2 PrimaryQueryResult

Type: Microsoft.Office.Server.Search.REST.QueryResult

Accessibility: Read/Write

As specified in section [3.1.5.2](#).

3.1.5.6.1.1.3 SecondaryQueryResults

Type: CSOM array of Microsoft.Office.Server.Search.REST.QueryResult

Accessibility: Read/Write

Array of QueryResult as specified in section [3.1.5.2](#).

3.1.5.6.1.1.4 Properties

Type: CSOM dictionary

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.6.1.1.5 SpellingSuggestion

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.6.1.1.6 TriggeredRules

Type: CSOM array of CSOM GUID

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.6.1.2 ObjectPath Properties

None.

3.1.5.7 Microsoft.Office.Server.Search.REST.SearchService

TypeId: {1DBA45DD-4E29-4975-82EB-51A4ABF22707}

ShortName: Microsoft.Office.Server.Search.REST.SearchService

SearchService exposes three OData Service Operations.

- **postquery** supports HTTP POST and returns search results. The purpose of the **postquery** service operation is to overcome URI length restriction in the client or server, by transporting query parameters in the body section of the HTTP request.
- **query** supports HTTP GET and returns search results.
- **suggest** supports HTTP GET and returns search query suggestions.
- **autocompletions** supports HTTP GET and returns a list of auto completions for the query string.
- **recordPageClick**

3.1.5.7.1 Properties

3.1.5.7.1.1 Scalar Properties

None.

3.1.5.7.1.2 ObjectPath Properties

None.

3.1.5.7.2 Methods

3.1.5.7.2.1 Scalar Methods

3.1.5.7.2.1.1 autocompletions

Return Type: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults

The operation is used to retrieve auto completion results by using the HTTP protocol with the GET method.

Parameters:

querytext: As specified in [\[MS-QSSWS\]](#) section [2.2.4.11](#).

Type: CSOM String

The parameter *querytext* is specified in *QueryProperties* [MS-QSSWS].

sources: As specified in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM String

numberOfCompletions: As specified in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM Int32

cursorPosition: As specified in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM Int32

3.1.5.7.2.1.2 postquery

Return Type: Microsoft.Office.Server.Search.REST.SearchResult

The operation is used to retrieve search results through the use of the HTTP protocol with method type POST.

Parameters:

request: As specified in section [3.1.5.5](#).

Type: Microsoft.Office.Server.Search.REST.SearchRequest

3.1.5.7.2.1.3 query

Return Type: Microsoft.Office.Server.Search.REST.SearchResult

The operation is used to retrieve search results by using the HTTP protocol with the GET method.

Parameters:

querytext: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM String

queryTemplate: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM String

enableInterleaving: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM Boolean

sourceId: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM GUID

rankingModelId: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM String

startRow: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM Int32

rowLimit: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM Int32

rowsPerPage: As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

Type: CSOM Int32

selectProperties: As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

Type: CSOM String

culture: Specifies the identifier of the language culture of the search query. If present, the value MUST be a valid LCID of a culture name, as specified in [\[RFC3066\]](#).

Type: CSOM Int32

refinementFilters: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM String

refiners: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM String

hiddenConstraints: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM String

sortList: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM String

enableStemming: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

trimDuplicates: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

timeout: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

enableNicknames: As specified [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

enablePhonetic: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

enableFQL: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM Boolean

hitHighlightedProperties: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM String

bypassResultTypes: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

processBestBets: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

clientType: Specifies the type of the query client. It MUST be of the **QueryLogClientType** data type as specified in [MS-QSSWS] section 3.1.4.11.4.1.

Type: CSOM String

personalizationData: As specified in [MS-QSSWS] section [2.2.4.11](#).

Type: CSOM GUID

resultsUrl: As specified in [MS-QSSWS] section 3.1.4.11.3.1.

Type: CSOM String

queryTag: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM String

trimDuplicatesIncludeId: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM Int64

totalRowsExactMinimum: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

impressionId: MUST NOT be used.

Type: CSOM String

properties: Allows transport of additional and custom properties structured as comma separated name-value pairs.

Type: CSOM String

See section [3.1.5.29](#)

enableQueryRules: Specifies whether query rules are included when a search query is executed. If the value is true, query rules are applied in the search query. If the value is false, query rules MUST NOT be applied in the search query.

Type: CSOM Boolean

summaryLength: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

maxSnippetLength: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

desiredSnippetLength: As specified in [MS-QSSWS] section 2.2.4.11 .

Type: CSOM Int32

uiLanguage: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

blockDedupeMode: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

generateBlockRankLog: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

enableSorting: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM Boolean

collapseSpecification: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM String

processPersonalFavorites: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

enableOrderingHitHighlightedProperty: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

hitHighlightedMultivaluePropertyLimit: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

queryTemplatePropertiesUrl: Specifies an identifier which the protocol server MAY use to modify the client-specified **Properties** property (section [3.1.5.9.1.2.3](#)).

Type: CSOM String

timeZoneId: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Int32

3.1.5.7.2.1.4 RecordPageClick

Return Type: None

The operation is used to record page clicks by using the HTTP protocol with the GET method.

Parameters:

pageInfo: Specifies the information about the clicked page, the page impression. This parameter MUST not be empty.

Type: CSOM String

clickType: As specified in [\[MS-QSSWS\] section 3.1.4.16.3.1](#). This parameter MUST not be empty.

Type: CSOM String

blockType: As specified in [MS-QSSWS] section [3.1.4.16.3.1](#).

Type: CSOM Int32

clickedResultId: Specifies the information about the clicked result. This parameter MUST not be empty.

Type: CSOM String

subResultIndex: Specifies the information about result index. Use 0 for ordinary results, and a value > 0 for deep links.

Type: CSOM Int32

immediacySourceId: As specified in [MS-QSSWS] section [3.1.4.16.3.2](#).

Type: CSOM String

The parameter *immediacySourceID* maps to the parameter *SourceID* in [MS-QSSWS]. This parameter MAY be empty. If this parameter is empty or faulty, the local SharePoint source GUID is used as the *immediateSourceId*.

immediacyQueryString: As specified in [MS-QSSWS] section [3.1.4.16.3.2](#).

Type: CSOM String

The parameter *immediacyQueryString* maps to the parameter *QueryString* in [MS-QSSWS].

immediacyTitle: As specified in [MS-QSSWS] section [3.1.4.16.3.2](#).

Type: CSOM String

The parameter *immediacyTitle* maps to the parameter *Title* in [MS-QSSWS].

immediacyUrl: As specified in [MS-QSSWS] section [3.1.4.16.3.2](#).

Type: CSOM String

The parameter *immediacyUrl* maps to the parameter *Url* in [MS-QSSWS].

3.1.5.7.2.1.5 resultspageaddress

Return Type: CSOM String

The operation is used to get the URI address of the result page by using the HTTP protocol with the GET method. The operation returns the URI of the result page.

Parameters: None

3.1.5.7.2.1.6 searchcenterurl

Return Type: CSOM String

The operation is used to get the URI address of the search center by using the HTTP protocol with the GET method. The operation returns the URI of the of the search center.

Parameters: None

3.1.5.7.2.1.7 suggest

Return Type: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionResults

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.

Parameters:

querytext: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM String

iNumberOfQuerySuggestions: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Int32

iNumberOfResultSuggestions: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Int32

fPreQuerySuggestions: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Boolean

fHitHighlighting: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Boolean

fCapitalizeFirstLetters: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Boolean

culture: Specifies the identifier of the language culture of the search suggestion. If present, the value MUST be a valid LCID of a culture name, as specified in [\[RFC3066\]](#).

Type: CSOM Int32

enableStemming: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

showPeopleNameSuggestions: As specified in [MS-QSSWS] section 3.1.4.7.3.1.

Type: CSOM Boolean

enableQueryRules: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

fPrefixMatchAllTerms: As specified in [MS-QSSWS] section 2.2.4.11.

Type: CSOM Boolean

3.1.5.7.2.2 ObjectPath Methods

3.1.5.7.2.2.1 CSOM Constructor

Initializes a new instance of the **SearchService** object.

Parameters: None

3.1.5.8 Microsoft.Office.Server.Search.REST.SpecialTermResult

TypeId: {9D6EB278-1166-420E-8642-37887FEE2BDC}

ShortName: Microsoft.Office.Server.Search.REST.SpecialTermResult

SpecialTermResult is a row in the Table property of a SpecialTermResults Table, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

A row in a SpecialTermResults Table maps to one instance of SpecialTermResults.

A row in a SpecialTermResults Table MUST have the columns *Title*, *Url*, and *Description*, and it MAY have the column *IsVisualBestBet*. Each of these columns maps to corresponding property of the SpecialTermResult type.

3.1.5.8.1 Properties

3.1.5.8.1.1 Scalar Properties

3.1.5.8.1.1.1 Description

Type: CSOM String

Accessibility: Read/Write

As specified in the SpecialTermResults Table in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.8.1.1.2 IsVisualBestBet

Type: CSOM Boolean

Accessibility: Read/Write

A value indicating whether the best bet should be rendered as an image.

3.1.5.8.1.1.3 Title

Type: CSOM String

Accessibility: Read/Write

As specified in the SpecialTermResults Table in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.8.1.1.4 Url

Type: CSOM String

Accessibility: Read/Write

As specified in the SpecialTermResults Table in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.8.1.1.5 PiSearchResultId

Type: CSOM String

Accessibility: Read/Write

As specified in the SpecialTermResults Table in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6

3.1.5.8.1.1.6 RenderTemplateId

Type: CSOM String

Accessibility: Read/Write

An identifier indicating a suggested rendering template for the **SpecialTermResult** entity.

3.1.5.8.1.2 ObjectPath Properties

None.

3.1.5.9 Microsoft.SharePoint.Client.Search.Query.KeywordQuery

TypeId: {80173281-FFFD-47B6-9A49-312E06FF8428}

ShortName: Microsoft.SharePoint.Client.Search.Query.KeywordQuery

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1 Properties

3.1.5.9.1.1 Scalar Properties

3.1.5.9.1.1.1 BypassResultTypes

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.2 Culture

Type: CSOM Int32

Accessibility: Read/Write

Specifies the identifier of the language culture of the search query. If present, the value MUST be a valid LCID of a culture name, as specified in [\[RFC3066\]](#).

3.1.5.9.1.1.3 EnableInterleaving

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.4 EnableNicknames

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.5 EnablePhonetic

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.6 EnableStemming

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.7 HiddenConstraints

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.8 QueryTag

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.9 QueryText

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.10 RankingModelId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.11 Refiners

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.12 ResultsUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.13 RowLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.14 RowsPerPage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.15 ShowPeopleNameSuggestions

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.16 SourceId

Type: CSOM GUID

Accessibility: Read/Write

Unique identifier of the result source.

3.1.5.9.1.1.17 StartRow

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.18 Timeout

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.19 TrimDuplicates

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.20 ClientType

Type: CSOM String

Accessibility: Read/Write

Specifies the type of the query client. It MUST be of **QueryLogClientType** data type as specified in [\[MS-QSSWS\]](#) section 3.1.4.11.4.1.

3.1.5.9.1.1.21 TrimDuplicatesIncludeId

Type: CSOM Int64

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.22 ProcessBestBets

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.23 TotalRowsExactMinimum

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.24 EnableQueryRules

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether query rules are included when a search query is executed. If the value is true, query rules MAY be included in the search query. If the value is false, query rules MUST not be included in the search query.

3.1.5.9.1.1.25 ImpressionID

Type: CSOM String

Accessibility: Read/Write

MUST NOT be used.

3.1.5.9.1.1.26 BlockDedupeMode

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.27 CollapseSpecification

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1

3.1.5.9.1.1.28 DesiredSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.29 EnableOrderingHitHighlightedProperty

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.30 EnableSorting

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.1.31 GenerateBlockRankLog

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.32 HitHighlightedMultivaluePropertyLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.33 MaxSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.34 ProcessPersonalFavorites

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.35 QueryTemplate

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.36 QueryTemplateParameters

Type: CSOM dictionary

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.37 SummaryLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.38 UILanguage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.1.39 IgnoreSafeQueryPropertiesTemplateUrl

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the **SafeQueryPropertiesTemplateUrl** (section [3.1.5.9.1.1.40](#)) property MAY be ignored by the protocol server.

3.1.5.9.1.1.40 SafeQueryPropertiesTemplateUrl

Type: CSOM String

Accessibility: Read/Write

Specifies an identifier which the protocol server MAY use to modify the client-specified **Properties** property (section [3.1.5.9.1.2.3](#)).

3.1.5.9.1.1.41 TimeZoneId

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section [2.2.4.11](#)

3.1.5.9.1.2 ObjectPath Properties

3.1.5.9.1.2.1 HitHighlightedProperties

Type: Microsoft.SharePoint.Client.Search.Query.StringCollection

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.2.2 PersonalizationData

Type: Microsoft.SharePoint.Client.Search.Query.QueryPersonalizationData

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.9.1.2.3 Properties

Type: Microsoft.SharePoint.Client.Search.Query.KeywordQueryProperties

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.2.4 RefinementFilters

Type: Microsoft.SharePoint.Client.Search.Query.StringCollection

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.2.5 SelectProperties

Type: Microsoft.SharePoint.Client.Search.Query.StringCollection

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.2.6 SortList

Type: Microsoft.SharePoint.Client.Search.Query.SortCollection

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.1.2.7 ReorderingRules

Type: Microsoft.SharePoint.Client.Search.Query.ReorderingRuleCollection

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.9.2 Methods

3.1.5.9.2.1 Scalar Methods

3.1.5.9.2.1.1 GetQuerySuggestionsWithResults

Return Type: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionResults

Specified in [\[MS-QSSWS\]](#) section 3.1.4.18.

Parameters:

iNumberOfQuerySuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1

Type: CSOM Int32

iNumberOfResultSuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1

Type: CSOM Int32

fPreQuerySuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1.

Type: CSOM Boolean

fHitHighlighting: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1

Type: CSOM Boolean

fCapitalizeFirstLetters: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1

Type: CSOM Boolean

fPrefixMatchAllTerms: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1

Type: CSOM Boolean

3.1.5.9.2.1.2 GetQueryCompletions

Return Type: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults

The operation is used to get the list of query completions for a query as specified in [\[MS-QSSWS\]](#) section [3.1.4.25](#).

Parameters:

numberOfCompletions: As specified in [\[MS-QSSWS\]](#) section [3.1.4.25.2.1](#).

Type: CSOM Int32

selectedSources: As specified in [\[MS-QSSWS\]](#) section [3.1.4.25.2.1](#).

Type: CSOM String

cursorPosition: As specified in [\[MS-QSSWS\]](#) section [3.1.4.25.2.1](#).

Type: CSOM Int32

3.1.5.9.2.2 ObjectPath Methods

3.1.5.9.2.2.1 CSOM Constructor

Initializes a new instance of the **KeywordQuery** object.

Parameters: None

3.1.5.10 Microsoft.SharePoint.Client.Search.Query.KeywordQueryProperties

TypeId: {8E0AB106-FBFE-43F1-9CB7-329130820F89}

ShortName: Microsoft.SharePoint.Client.Search.Query.KeywordQueryProperties

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1

3.1.5.10.1 Properties

3.1.5.10.1.1 Scalar Properties

None.

3.1.5.10.1.2 ObjectPath Properties

None.

3.1.5.10.2 Methods

3.1.5.10.2.1 Scalar Methods

3.1.5.10.2.1.1 GetQueryPropertyValue

Return Type: Microsoft.SharePoint.Client.Search.Query.QueryPropertyValue

Retrieves the value of a property based on the specified name.

Parameters:

name: Name of a property in the **KeywordQueryProperties** complex type ([\[MS-QSSWS\]](#) section 3.1.4.7.3.1).

Type: CSOM String

3.1.5.10.2.1.2 SetQueryPropertyValue

Return Type: None

Sets the value of a property based on the specified name.

Parameters:

name: Name of a property in the **KeywordQueryProperties** complex type ([\[MS-QSSWS\]](#) section 3.1.4.7.3.1).

Type: CSOM String

val: Value of the property to be set in the **KeywordQueryProperties** complex type ([\[MS-QSSWS\]](#) section 3.1.4.7.3.1). The value **MUST** conform to the specification in ([\[MS-QSSWS\]](#) section 3.1.4.7.3.1).

Type: Microsoft.SharePoint.Client.Search.Query.QueryPropertyValue

3.1.5.10.2.2 ObjectPath Methods

None.

3.1.5.11 Microsoft.SharePoint.Client.Search.Query.PersonalResultSuggestion

TypeId: {AAFD94AF-525A-4759-8410-F571A26F04BC}

ShortName: Microsoft.SharePoint.Client.Search.Query.PersonalResultSuggestion

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.3.

3.1.5.11.1 Properties

3.1.5.11.1.1 Scalar Properties

3.1.5.11.1.1.1 IsBestBet

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.3.

3.1.5.11.1.1.2 Title

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.3.

3.1.5.11.1.1.3 Url

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.3.

3.1.5.11.1.1.4 HighlightedTitle

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.3.

3.1.5.11.1.2 ObjectPath Properties

None.

3.1.5.12 Microsoft.SharePoint.Client.Search.Query.Query

TypeId: {506FBB38-B10C-4CB3-80A0-9003A85B56ED}

ShortName: Microsoft.SharePoint.Client.Search.Query.Query

Specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1 Properties

3.1.5.12.1.1 Scalar Properties

3.1.5.12.1.1.1 BypassResultTypes

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.2 Culture

Type: CSOM Int32

Accessibility: Read/Write

Specifies the identifier of the language culture of the search query. If present, the value MUST be a valid LCID of a culture name, as specified in [\[RFC3066\]](#).

3.1.5.12.1.1.3 EnableInterleaving

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.4 EnableNicknames

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.5 EnablePhonetic

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.6 EnableStemming

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.7 QueryTag

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.8 QueryText

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.9 RankingModelId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.10 ResultsUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.11 RowLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.12 RowsPerPage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.13 ShowPeopleNameSuggestions

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.14 SourceId

Type: CSOM GUID

Accessibility: Read/Write

Unique identifier of the **result source**.

3.1.5.12.1.1.15 StartRow

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.16 Timeout

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.17 TrimDuplicates

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.18 ClientType

Type: CSOM String

Accessibility: Read/Write

Specifies the type of the query client. It MUST be of **QueryLogClientType** data type as specified in [\[MS-QSSWS\]](#) section 3.1.4.11.4.1.

3.1.5.12.1.1.19 ProcessBestBets

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.12.1.1.20 TotalRowsExactMinimum

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.21 EnableQueryRules

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether query rules are included when a search query is executed. If the value is true, query rules MAY be included in the search query. If the value is false, query rules MUST not be included in the search query.

3.1.5.12.1.1.22 ImpressionID

Type: CSOM String

Accessibility: Read/Write

MUST NOT be used.

3.1.5.12.1.1.23 BlockDedupeMode

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.24 DesiredSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.25 EnableOrderingHitHighlightedProperty

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.26 GenerateBlockRankLog

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.27 HitHighlightedMultivaluePropertyLimit

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.28 MaxSnippetLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.29 ProcessPersonalFavorites

Type: CSOM Boolean

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.30 QueryTemplate

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.31 QueryTemplateParameters

Type: CSOM dictionary

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.32 SummaryLength

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.33 UILanguage

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.1.34 IgnoreSafeQueryPropertiesTemplateUrl

Type: CSOM Boolean

Accessibility: Read/Write

The value of this property MUST be ignored by the protocol server.

3.1.5.12.1.1.35 SafeQueryPropertiesTemplateUrl

Type: CSOM String

Accessibility: Read/Write

The value of this property MUST be ignored by the protocol server.

3.1.5.12.1.2 ObjectPath Properties

3.1.5.12.1.2.1 HitHighlightedProperties

Type: Microsoft.SharePoint.Client.Search.Query.StringCollection

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.1.2.2 PersonalizationData

Type: Microsoft.SharePoint.Client.Search.Query.QueryPersonalizationData

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 2.2.4.11.

3.1.5.12.2 Methods

3.1.5.12.2.1 Scalar Methods

3.1.5.12.2.1.1 GetQuerySuggestionsWithResults

Return Type: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionResults

Specified in [\[MS-QSSWS\]](#) section 3.1.4.18.

Parameters:

iNumberOfQuerySuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1.

Type: CSOM Int32

iNumberOfResultSuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1.

Type: CSOM Int32

fPreQuerySuggestions: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1.

Type: CSOM Boolean

fHitHighlighting: As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.2.1.

Type: CSOM Boolean

fCapitalizeFirstLetters: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Boolean

fPrefixMatchAllTerms: As specified in [MS-QSSWS] section 3.1.4.18.2.1.

Type: CSOM Boolean

3.1.5.12.2.1.2 GetQueryCompletions

Return Type: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25](#)

Parameters:

numberOfCompletions: As specified in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM Int32

selectedSources: As specified for sources in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM String

The parameter *selectedSources* is named Sources in [MS-QSSWS]

cursorPosition: As specified in [MS-QSSWS] section [3.1.4.25.2.1](#).

Type: CSOM Int32

The parameter *cursorPosition* is named Cursor in [MS-QSSWS]

3.1.5.12.2.2 ObjectPath Methods

None.

3.1.5.13 Microsoft.SharePoint.Client.Search.Query.QueryPersonalizationData

TypeId: {28D79F49-820A-4D51-BB2A-3309B3F4C54D}

ShortName: Microsoft.SharePoint.Client.Search.Query.QueryPersonalizationData

As specified in [\[MS-QSSWS\]](#) section 2.2.4.10.

3.1.5.13.1 Properties

3.1.5.13.1.1 Scalar Properties

None.

3.1.5.13.1.2 ObjectPath Properties

None.

3.1.5.13.2 Methods

3.1.5.13.2.1 Scalar Methods

None.

3.1.5.13.2.2 ObjectPath Methods

3.1.5.13.2.2.1 CSOM Constructor

Initializes a new instance of the **QueryPersonalizationData** object.

Parameters:

guidUserIdString: As specified by **UserId** in [\[MS-QSSWS\]](#) section 2.2.4.10.

Type: CSOM String

3.1.5.14 Microsoft.SharePoint.Client.Search.Query.QueryPropertyValue

TypeId: {B25BA502-71D7-4AE4-A701-4CA2FB1223BE}

ShortName: Microsoft.SharePoint.Client.Search.Query.QueryPropertyValue

This object is used to store values of predefined types. The object **MUST** have a value set for only one of the property.

3.1.5.14.1 Properties

3.1.5.14.1.1 Scalar Properties

3.1.5.14.1.1.1 BoolVal

Type: CSOM Boolean

Accessibility: Read/Write

Specifies any arbitrary value of type CSOM Boolean. This property **MUST** have a value only if **QueryPropertyValueTypeId** is set to 3.

3.1.5.14.1.1.2 IntVal

Type: CSOM Int32

Accessibility: Read/Write

Specifies any arbitrary value of type CSOM Int32. This property **MUST** have a value only if **QueryPropertyValueTypeId** is set to 2.

3.1.5.14.1.1.3 QueryPropertyValueTypeId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the type of data stored in this object. This **MUST** be set to one of the following values.

- 0: Specifies that no value is stored in this object.
- 1: Specifies that a CSOM String value is stored.
- 2: Specifies that a CSOM Int32 value is stored.
- 3: Specifies that a CSOM Boolean value is stored.
- 4: Specifies that a CSOM array of type CSOM String is stored.

5: Specifies that the value is an unsupported type.

3.1.5.14.1.1.4 StrArray

Type: CSOM array of CSOM String

Accessibility: Read/Write

Specifies any arbitrary value of type CSOM array. This property MUST have a value only if **QueryPropertyValueTypeInfo** is set to 4.

3.1.5.14.1.1.5 StrVal

Type: CSOM String

Accessibility: Read/Write

Specifies any arbitrary value of type CSOM String. This property MUST have a value only if **QueryPropertyValueTypeInfo** is set to 1.

3.1.5.14.1.2 ObjectPath Properties

None.

3.1.5.15 Microsoft.SharePoint.Client.Search.Query.QuerySuggestionResults

TypeId: {EF071CB4-7FAB-4E8D-9480-F15D30DC696D}

ShortName: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionResults

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.1.

3.1.5.15.1 Properties

3.1.5.15.1.1 Scalar Properties

3.1.5.15.1.1.1 PeopleNames

Type: CSOM array of CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.1.

3.1.5.15.1.1.2 PersonalResults

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.PersonalResultSuggestion

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.1.

3.1.5.15.1.1.3 Queries

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.QuerySuggestionQuery

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.1.

3.1.5.15.1.2 ObjectPath Properties

None.

3.1.5.16 Microsoft.SharePoint.Client.Search.Query.ResultTable

TypeId: {6780DF59-1036-4912-829B-432354F22656}

ShortName: Microsoft.SharePoint.Client.Search.Query.ResultTable

Specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1 Properties

3.1.5.16.1.1 Scalar Properties

3.1.5.16.1.1.1 Properties

Type: CSOM dictionary

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.2 QueryId

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.3 ResultRows

Type: CSOM array of CSOM dictionary

Accessibility: Read Only

Contains the list of query results.

3.1.5.16.1.1.4 RowCount

Type: CSOM Int32

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.5 TableType

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.6 TotalRows

Type: CSOM Int32

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.7 GroupTemplateId

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.8 ItemTemplateId

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.9 QueryRuleId

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.10 ResultTitle

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.11 ResultTitleUrl

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.1.12 TotalRowsIncludingDuplicates

Type: CSOM Int32

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.16.1.2 ObjectPath Properties

None.

3.1.5.17 Microsoft.SharePoint.Client.Search.Query.ResultTableCollection

TypeId: {11F20D08-7F42-49C1-8C0C-8EE4C32B203E}

ShortName: Microsoft.SharePoint.Client.Search.Query.ResultTableCollection

Specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1 Properties

3.1.5.17.1.1 Scalar Properties

3.1.5.17.1.1.1 ElapsedTime

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.1.2 Properties

Type: CSOM dictionary

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.1.3 QueryId

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.1.4 SpellingSuggestion

Type: CSOM String

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.1.5 TriggeredRules

Type: CSOM array of CSOM GUID

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.1.6 QueryErrors

Type: CSOM dictionary

Accessibility: Read Only

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

3.1.5.17.1.2 ObjectPath Properties

None.

3.1.5.18 Microsoft.SharePoint.Client.Search.Query.SearchExecutor

TypeId: {8D2AC302-DB2F-46FE-9015-872B35F15098}

ShortName: Microsoft.SharePoint.Client.Search.Query.SearchExecutor

This object contains operations to execute a search query or a batch of search queries and retrieve a list of links to items and associated properties, crawled locally by the protocol server or by another search engine.

3.1.5.18.1 Properties

3.1.5.18.1.1 Scalar Properties

None.

3.1.5.18.1.2 ObjectPath Properties

None.

3.1.5.18.2 Methods

3.1.5.18.2.1 Scalar Methods

3.1.5.18.2.1.1 ExecuteQueries

Return Type: CSOM dictionary

This method is used to execute a batch of search queries and retrieve a list of links to items, crawled locally by the protocol server or by another search engine, that are relevant to the search query, together with associated properties, for all the search queries.

This method returns a dictionary where each row corresponds to a query object. Each row contains a *queryId* and query results that correspond to that *queryId*.

Parameters:

queryIds: Specifies a list of identifiers for the query objects in the *queries* parameter.

Type: CSOM array of CSOM String

queries: Specifies a list of query objects specified in section [3.1.5.12](#).

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.Query

handleExceptions: Specifies how the protocol server SHOULD handle errors encountered while executing the list of search queries. If the value is "true", then the protocol server MUST execute all the search queries. For each search query that encounters an error, the protocol server MUST set the **QueryErrors** property specified in section [3.1.5.17.1.1.6](#) of the corresponding query result in the returned dictionary. If the value is "false", and any search query encounters an error, the protocol server MUST throw an exception that represents the error for any one of the search queries.

Type: CSOM Boolean

3.1.5.18.2.1.2 ExecuteQuery

Return Type: Microsoft.SharePoint.Client.Search.Query.ResultTableCollection

This method is used to execute a search query and retrieve a list of links to items, crawled locally by the protocol server or by another search engine, that are relevant to the search query, together with associated properties.

This method returns a **ResultTableCollection** object that contains the query results for the search query

Parameters:

query: Specified in section [3.1.5.12](#).

Type: Microsoft.SharePoint.Client.Search.Query.Query

3.1.5.18.2.1.3 RecordPageClick

Return Type: None

Specified in [\[MS-QSSWS\]](#) section 3.1.4.16.

Parameters:

pageInfo: MUST be set to the value of the **piPageImpression** property of the **ResultTableCollection**. If the **piPageImpression** property does not exist or is an empty string, then the client MUST NOT call this method. See **piPageImpression** in [\[MS-QSSWS\]](#) section 3.1.4.1.3.1.

Type: CSOM String

Microsoft.SharePoint.Client.Web is specified in [\[MS-CSOMSPT\]](#) section 3.2.5.143.

clickType: As specified in [\[MS-QSSWS\]](#) section 3.1.4.16.4.1

Type: CSOM String

blockType: MUST be set to the value of the **piPageImpressionBlockType** property of the **ResultTable**. If the **piPageImpressionBlockType** property does not exist or is an empty string then the client MUST NOT call this method. See **piPageImpressionBlockType** in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

Type: CSOM Int32

clickedResultId: MUST be set to the value of the **piSearchResultId** column of the **ResultTable**. If the **piSearchResultId** column does not exist or is an empty string, then the client MUST NOT call this method. See **piSearchResultId** in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

Type: CSOM String

subResultIndex: The index of the document associated with a search result. MUST be 0 if the search result is clicked or MUST be a 1-based index of a document returned in the **deeplinks** column of a corresponding **ResultTable**. Documents in the **deeplinks** column are represented as encoded URLs separated by spaces.

Type: CSOM Int32

immediacySourceId: See **SourceId** in section [3.1.5.12.1.1.14](#).

Type: CSOM String

immediacyQueryString: See **QueryText** in section [3.1.5.12.1.1.8](#).

Type: CSOM String

immediacyTitle: See **ResultTitle** in section [3.1.5.16.1.1.10](#).

Type: CSOM String

immediacyUrl: See **ResultTitleUrl** in section [3.1.5.16.1.1.11](#).

Type: CSOM String

3.1.5.18.2.1.4 ExportPopularQueries

Return Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.PopularQuery

This method is used to get a list of popular search queries executed on the specified **site**.

Parameters:

web: The site that is used by the protocol server to identify the **context** of the popular query export.

Type: Microsoft.SharePoint.Client.Web

sourceId: Specifies the unique identifier of the result source to use for exporting popular queries.

Type: CSOM GUID

3.1.5.18.2.2 ObjectPath Methods

3.1.5.18.2.2.1 CSOM Constructor

Initializes a new instance of the **SearchExecutor** object.

Parameters: None

3.1.5.19 Microsoft.SharePoint.Client.Search.Query.Sort

TypeId: {2CD54EF7-C2B3-4405-BCE3-EC521D35A7EB}

ShortName: Microsoft.SharePoint.Client.Search.Query.Sort

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.6.

3.1.5.19.1 Properties

3.1.5.19.1.1 Scalar Properties

3.1.5.19.1.1.1 Direction

Type: Microsoft.SharePoint.Client.Search.Query.SortDirection

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.6.

3.1.5.19.1.1.2 Property

Type: CSOM String

Accessibility: Read/Write

For details, see **strProperty**, as specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.6.

3.1.5.19.1.2 ObjectPath Properties

None.

3.1.5.20 Microsoft.SharePoint.Client.Search.Query.SortCollection

TypeId: {F5A89F94-DB5D-4ABE-B9EC-DC6B306DF93E}

ShortName: Microsoft.SharePoint.Client.Search.Query.SortCollection

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.4.

3.1.5.20.1 Properties

3.1.5.20.1.1 Scalar Properties

None.

3.1.5.20.1.2 ObjectPath Properties

None.

3.1.5.20.2 Methods

3.1.5.20.2.1 Scalar Methods

3.1.5.20.2.1.1 Add

Return Type: None

Adds a new element of type Microsoft.SharePoint.Client.Search.Query.Sort to the collection and returns a reference to the added Microsoft.SharePoint.Client.Search.Query.Sort.

Parameters:

strProperty: Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.6.

Type: CSOM String

direction: Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.6.

Type: Microsoft.SharePoint.Client.Search.Query.SortDirection

3.1.5.20.2.1.2 Clear

Return Type: None

Deletes all the elements in the collection.

Parameters: None

3.1.5.20.2.2 ObjectPath Methods

None.

3.1.5.21 Microsoft.SharePoint.Client.Search.Query.SortDirection

ShortName: Microsoft.SharePoint.Client.Search.Query.SortDirection

Flag: false

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.4.

3.1.5.21.1 Field Values

3.1.5.21.1.1 Ascending

Value: 0

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.4.

3.1.5.21.1.2 Descending

Value: 1

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.4.

3.1.5.21.1.3 FQLFormula

Value: 2

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.4.

3.1.5.22 Microsoft.SharePoint.Client.Search.Query.StringCollection

TypeId: {17C6C8BA-C570-4DB1-993A-FBACF4E4EF07}

ShortName: Microsoft.SharePoint.Client.Search.Query.StringCollection

Contains a collection of arbitrary string values.

3.1.5.22.1 Properties

3.1.5.22.1.1 Scalar Properties

None.

3.1.5.22.1.2 ObjectPath Properties

None.

3.1.5.22.2 Methods

3.1.5.22.2.1 Scalar Methods

3.1.5.22.2.1.1 Add

Return Type: None

Adds an arbitrary string value to the collections.

Parameters:

property: A single string value

Type: CSOM String

3.1.5.22.2.1.2 Clear

Return Type: None

Deletes all the string values in the collection.

Parameters: None

3.1.5.22.2.2 ObjectPath Methods

3.1.5.22.2.2.1 CSOM Constructor

Initializes a new instance of the **StringCollection** object.

Parameters: None

3.1.5.23 Microsoft.SharePoint.Client.Search.Query.RankingLabeling

TypeId: {E2533389-4387-4EBE-8DF7-11AF5568AED5}

ShortName: Microsoft.SharePoint.Client.Search.Query.RankingLabeling

Provides methods for getting and adding **relevance judgments**.

3.1.5.23.1 Properties

3.1.5.23.1.1 Scalar Properties

None.

3.1.5.23.1.2 ObjectPath Properties

None.

3.1.5.23.2 Methods

3.1.5.23.2.1 Scalar Methods

3.1.5.23.2.1.1 AddJudgment

Return Type: None

Adds a single relevance judgment for the specified **query** and URL pair.

Parameters:

userQuery: User query for which the relevance judgment is added.

Type: CSOM String

url: URL for which the relevance judgment is added.

Type: CSOM String

labelId: The judgment for this query-URL pair as represented by an **Int16**. This value MUST be between 1 and 5 inclusive.

Type: **CSOM Int16**

3.1.5.23.2.1.2 **GetJudgementsForQuery**

Return Type: CSOM dictionary

Retrieves all known relevance judgments for the specified query. The returned dictionary MUST map the URL of the document to the relevance judgment label. The label MUST be an integer value between 1 and 5 inclusive.

Parameters:

query: Query string for which relevance judgments are to be retrieved.

Type: CSOM String

3.1.5.23.2.1.3 **NormalizeResultUrl**

Return Type: CSOM String

A URL string after normalization. The input and output URL strings MUST resolve to the same document.

Parameters:

url: The URL for which the relevance judgment is added.

Type: CSOM String

3.1.5.23.2.2 **ObjectPath Methods**

3.1.5.23.2.2.1 **CSOM Constructor**

Initializes a new instance of the **RankingLabeling** object.

Parameters: None

3.1.5.24 **Microsoft.SharePoint.Client.Search.Query.QuerySuggestionQuery**

TypeId: {44908C33-C578-4342-905A-EE284B67B415}

ShortName: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionQuery

Specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.5.

3.1.5.24.1 **Properties**

3.1.5.24.1.1 **Scalar Properties**

3.1.5.24.1.1.1 **IsPersonal**

Type: CSOM Boolean

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.5.

3.1.5.24.1.1.2 **Query**

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section 3.1.4.18.3.5.

3.1.5.24.1.2 ObjectPath Properties

None.

3.1.5.25 Microsoft.Office.Server.Search.REST.SpecialTermResults

TypeId: {185764A3-378A-4436-B87D-6B5CD50B8E6A}

ShortName: Microsoft.Office.Server.Search.REST.SpecialTermResults

SpecialTermResults is a SpecialTermResults Table, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6

Each entry in the Table property from the SpecialResults Table is mapped to a SpecialTermResult entry accessible through the **Results** property.

3.1.5.25.1 Properties

3.1.5.25.1.1 Scalar Properties

3.1.5.25.1.1.1 Properties

Type: CSOM dictionary

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.25.1.1.2 Results

Type: CSOM array of Microsoft.Office.Server.Search.REST.SpecialTermResult

Accessibility: Read/Write

As specified in section [3.1.5.8](#).

Contains the list of **SpecialTermResult** entries.

3.1.5.25.1.1.3 GroupTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.25.1.1.4 ItemTemplateId

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.25.1.1.5 ResultTitle

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.25.1.1.6 ResultTitleUrl

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6.

3.1.5.25.1.2 ObjectPath Properties

None.

3.1.5.26 Microsoft.SharePoint.Client.Search.Query.ReorderingRule

TypeId: {D8566F46-74B1-4D92-BA88-0EFD23B36F71}

ShortName: Microsoft.SharePoint.Client.Search.Query.ReorderingRule

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

3.1.5.26.1 Properties

3.1.5.26.1.1 Scalar Properties

3.1.5.26.1.1.1 Boost

Type: CSOM Int32

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

3.1.5.26.1.1.2 MatchType

Type: Microsoft.SharePoint.Client.Search.Query.ReorderingRuleMatchType

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

3.1.5.26.1.1.3 MatchValue

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

3.1.5.26.1.2 ObjectPath Properties

None.

3.1.5.27 Microsoft.SharePoint.Client.Search.Query.ReorderingRuleCollection

TypeId: {B0522938-E1B7-4FC4-A6A8-BD3ED873E614}

ShortName: Microsoft.SharePoint.Client.Search.Query.ReorderingRuleCollection

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.3.7.

3.1.5.27.1 Properties

3.1.5.27.1.1 Scalar Properties

None.

3.1.5.27.1.2 ObjectPath Properties

None.

3.1.5.27.2 Methods

3.1.5.27.2.1 Scalar Methods

3.1.5.27.2.1.1 Add

Return Type: None

Adds a new element of type **Microsoft.SharePoint.Client.Search.Query.ReorderingRule** as specified in section [3.1.5.26](#) to the collection and returns a reference to the added **Microsoft.SharePoint.Client.Search.Query.ReorderingRule** element.

Parameters:

matchType: See section [3.1.5.28](#).

Type: Microsoft.SharePoint.Client.Search.Query.ReorderingRuleMatchType

matchValue: [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

Type: CSOM String

boost: [\[MS-QSSWS\]](#) section 3.1.4.7.3.9.

Type: CSOM Int32

3.1.5.27.2.1.2 Clear

Return Type: None

Deletes all the elements from the collection.

Parameters: None

3.1.5.27.2.2 ObjectPath Methods

None.

3.1.5.28 Microsoft.SharePoint.Client.Search.Query.ReorderingRuleMatchType

ShortName: Microsoft.SharePoint.Client.Search.Query.ReorderingRuleMatchType

Flag: false

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1 Field Values

3.1.5.28.1.1 ResultContainsKeyword

Value: 0

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.2 TitleContainsKeyword

Value: 1

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.3 TitleMatchesKeyword

Value: 2

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.4 UrlStartsWith

Value: 3

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.5 UriExactlyMatches

Value: 4

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.6 ContentTypeIs

Value: 5

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.7 FileExtensionMatches

Value: 6

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.8 ResultHasTag

Value: 7

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.28.1.9 ManualCondition

Value: 8

Specified in [\[MS-QSSWS\]](#) section 3.1.4.7.4.5.

3.1.5.29 Microsoft.Office.Server.Search.REST.QueryProperty

TypeId: {742338CA-8301-4574-9D77-BFF2AF39AD62}

ShortName: Microsoft.Office.Server.Search.REST.QueryProperty

This object stores additional or custom properties for a search query. A **QueryProperty** is structured as name-value pairs.

The value MUST conform to the specification in [\[MS-QSSWS\]](#) section 3.1.4.7.3.1.

3.1.5.29.1 Properties

3.1.5.29.1.1 Scalar Properties

3.1.5.29.1.1.1 Name

Type: CSOM String

Accessibility: Read/Write

Name of a property in **CSOM String** format.

This property stores the name part of the **QueryProperty** name-value pair.

3.1.5.29.1.1.2 Value

Type: Microsoft.SharePoint.Client.Search.Query.QueryPropertyValue

Accessibility: Read/Write

As specified in section [3.1.5.14](#).

This property stores the value part of the **QueryProperty** name-value pair.

3.1.5.29.1.2 ObjectPath Properties

None.

3.1.5.30 Microsoft.Office.Server.Search.REST.Refiner

TypeId: {63EEBA68-040C-4B26-8590-EB2E4153163F}

ShortName: Microsoft.Office.Server.Search.REST.Refiner

Refiner is an **ArrayOfRefinement** as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.9.

A refiner contains a CSOM array, with entries, of the types as specified in section [3.1.5.2](#). All entries in the array MUST share the same **RefinerName**, as specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.6), accessed through the **Name** property of the refiner containing these entries.

3.1.5.30.1 Properties

3.1.5.30.1.1 Scalar Properties

3.1.5.30.1.1.1 Entries

Type: CSOM array of Microsoft.Office.Server.Search.REST.RefinerEntry

Accessibility: Read/Write

An array of **RefinerEntry** as specified in section [3.1.5.2](#).

3.1.5.30.1.1.2 Name

Type: CSOM String

Accessibility: Read/Write

As specified as Refinement.RefinerName in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.30.1.2 ObjectPath Properties

None.

3.1.5.31 Microsoft.Office.Server.Search.REST.RefinerEntry

TypeId: {316905B6-359D-44A3-B728-25F2D292E1E8}

ShortName: Microsoft.Office.Server.Search.REST.RefinerEntry

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.31.1 Properties

3.1.5.31.1.1 Scalar Properties

3.1.5.31.1.1.1 RefinementCount

Type: CSOM Int64

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.31.1.1.2 RefinementName

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.31.1.1.3 RefinementToken

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.31.1.1.4 RefinementValue

Type: CSOM String

Accessibility: Read/Write

As specified in [\[MS-QSSWS\]](#) section 3.1.4.1.3.10.

3.1.5.31.1.2 ObjectPath Properties

None.

3.1.5.32 Microsoft.Office.Server.Search.WebControls.ControlMessage

TypeId: {D3DFEF63-4D44-497D-B936-047135645AD7}

ShortName: Microsoft.Office.Server.Search.WebControls.ControlMessage

This object stores information about a search query exception.

3.1.5.32.1 Properties

3.1.5.32.1.1 Scalar Properties

3.1.5.32.1.1.1 code

Type: CSOM Int32

Accessibility: Read Only

This property is not used and MUST be -1.

3.1.5.32.1.1.2 correlationID

Type: CSOM String

Accessibility: Read Only

The **GUID** used to log all the information for a search query in diagnostic logs.

3.1.5.32.1.1.3 encodeDetails

Type: CSOM Boolean

Accessibility: Read Only

If TRUE, the protocol client MUST interpret the **messageDetails** as **HTML**.

3.1.5.32.1.1.4 header

Type: CSOM String

Accessibility: Read Only

This property is not used and MUST be null.

3.1.5.32.1.1.5 level

Type: Microsoft.Office.Server.Search.WebControls.MessageLevel

Accessibility: Read Only

MUST be **MessageLevel.Error** as specified in section [3.1.5.33.1.3](#).

3.1.5.32.1.1.6 messageDetails

Type: CSOM String

Accessibility: Read Only

The detailed message of the search query exception.

3.1.5.32.1.1.7 messageDetailsForViewers

Type: CSOM String

Accessibility: Read Only

This property is not used and MUST be an empty string.

3.1.5.32.1.1.8 serverTypeId

Type: CSOM String

Accessibility: Read Only

A unique identifier of the **ControlMessage** (section [3.1.5.32](#)) object. MUST have the value of "{D3DFEF63-4D44-497D-B936-047135645AD7}"

3.1.5.32.1.1.9 showForViewerUsers

Type: CSOM Boolean

Accessibility: Read Only

This property is not used and MUST be true.

3.1.5.32.1.1.10 showInEditModeOnly

Type: CSOM Boolean

Accessibility: Read Only

This property is not used and MUST be false.

3.1.5.32.1.1.11 stackTrace

Type: CSOM String

Accessibility: Read Only

The stack trace of the search query exception.

3.1.5.32.1.1.12 type

Type: CSOM String

Accessibility: Read Only

The class name of the search query exception.

3.1.5.32.1.2 ObjectPath Properties

None.

3.1.5.33 Microsoft.Office.Server.Search.WebControls.MessageLevel

ShortName: Microsoft.Office.Server.Search.WebControls.MessageLevel

Flag: false

Severity level of the **ControlMessage** as specified in section [3.1.5.32](#).

3.1.5.33.1 Field Values

3.1.5.33.1.1 Information

Value: 0

Indicates that the **ControlMessage** (section [3.1.5.32](#)) is informational.

3.1.5.33.1.2 Warning

Value: 1

Indicates that the **ControlMessage** (section [3.1.5.32](#)) is a warning.

3.1.5.33.1.3 Error

Value: 2

Indicates that the **ControlMessage** (section [3.1.5.32](#)) is an error.

3.1.5.34 Microsoft.SharePoint.Client.Search.Administration.DocumentCrawlLog

TypeId: {5C5CFD42-0712-4C00-AE49-23B33BA34ECC}

ShortName: Microsoft.SharePoint.Client.Search.Administration.DocumentCrawlLog

This object contains methods that can be used by the protocol client to retrieve information about items that were crawled.

3.1.5.34.1 Properties

3.1.5.34.1.1 Scalar Properties

None.

3.1.5.34.1.2 ObjectPath Properties

None.

3.1.5.34.2 Methods

3.1.5.34.2.1 Scalar Methods

3.1.5.34.2.1.1 GetCrawledUrls

Return Type: Microsoft.SharePoint.Client.SimpleDataTable

This method is used to retrieve information about all the contents that were crawled. Microsoft.SharePoint.Client.SimpleDataTable is specified in [\[MS-CSOMREST\]](#) section 3.1.5.1.3.3.

Parameters:

getCountOnly: If true, only the count of the contents crawled MUST be returned. If false, all the information about the crawled contents MUST be returned.

Type: CSOM Boolean

maxRows: maximum number of rows to be returned. If 0 is specified, all the rows are returned. The protocol server MUST NOT return more rows than specified by the *maxRows* parameter, if it is not 0.

Type: CSOM Int64

queryString: Specifies the URL pattern for which crawled documents MUST be returned. The specified pattern MUST match all literal characters except for the character '*'. The '*' character MUST match any number of arbitrary characters.

Type: CSOM String

isLike: If true, the pattern specified in *queryString* MUST be used as the prefix while matching the URLs of the crawled content. If false, the pattern specified in *queryString* MUST be used to exactly match the URLs of the crawled content.

Type: CSOM Boolean

contentSourceID: Unique identifier of the **content source**. If specified, only the crawled contents that are associated with the content source MUST be returned.

Type: CSOM Int32

errorLevel: Specifies the type of crawled content that MUST be returned. MUST be set to one of the following values:

-1: All the crawled content MUST be returned.

0: Only contents that were successfully crawled MUST be returned.

1: Only contents that generated a warning during a crawl MUST be returned.

2: Only contents that generated an error during a crawl MUST be returned.

3: Only contents that were previously in the index but removed during the latest crawl MUST be returned.

Type: CSOM Int32

errorID: MUST be set to -1.

Type: CSOM Int32

startDateTime: If set to **DateTime.MinValue**, information about all the crawled contents MUST be returned. If not, only information about contents that were crawled after this datetime MUST be returned.

Type: **CSOM DateTime**

endDateTime: If set to **DateTime.MaxValue**, information about all the crawled contents MUST be returned. If not, only information about contents that were crawled before this datetime MUST be returned.

Type: CSOM DateTime

3.1.5.34.2.2 ObjectPath Methods

3.1.5.34.2.2.1 CSOM Constructor

Initializes a new instance of a **DocumentCrawlLog** object.

Parameters:

site: The site for which information about items that were crawled is retrieved.

Type: Microsoft.SharePoint.Client.Site

Microsoft.SharePoint.Client.Site is specified in [\[MS-CSOMSPT\]](#) section 3.2.5.119.

3.1.5.35 Microsoft.SharePoint.Client.Search.Administration.SearchObjectLevel

ShortName: Microsoft.SharePoint.Client.Search.Administration.SearchObjectLevel

Flag: false

This enumeration represents a site server level.

3.1.5.35.1 Field Values

3.1.5.35.1.1 SPWeb

Value: 0

Represents the level of a site server site.

3.1.5.35.1.2 SPSite

Value: 1

Represents the level of a site server site collection.

3.1.5.35.1.3 SPSiteSubscription

Value: 2

Represents the level of a site server tenant.

3.1.5.35.1.4 Ssa

Value: 3

Represents the level of a site server search service application.

3.1.5.36 Microsoft.SharePoint.Client.Search.Administration.SearchObjectOwner

TypeId: {E6834C69-54C1-4BFC-9805-4B88406C28BB}

ShortName: Microsoft.SharePoint.Client.Search.Administration.SearchObjectOwner

This object represents a site server owner.

3.1.5.36.1 Properties

3.1.5.36.1.1 Scalar Properties

None.

3.1.5.36.1.2 ObjectPath Properties

None.

3.1.5.36.2 Methods

3.1.5.36.2.1 Scalar Methods

None.

3.1.5.36.2.2 ObjectPath Methods

3.1.5.36.2.2.1 CSOM Constructor

Initializes a new **SearchObjectOwner** object.

Parameters:

lowestCurrentLevelToUse: Specifies the site server level to use.

Type: Microsoft.SharePoint.Client.Search.Administration.SearchObjectLevel

3.1.5.37 Microsoft.SharePoint.Client.Search.Portability.SearchConfigurationPortability

TypeId: {F44B2C90-DDC4-49C8-8D4D-4FB56DCC3247}

ShortName: Microsoft.SharePoint.Client.Search.Portability.SearchConfigurationPortability

This object contains methods that can be used to import, export, or delete search settings, which includes query rules, result sources, **managed properties**, **crawled properties**, and **ranking models**, to a site, site collection, tenant level, or search service application.

3.1.5.37.1 Properties

3.1.5.37.1.1 Scalar Properties

3.1.5.37.1.1.1 ImportWarnings

Type: CSOM String

Accessibility: Read Only

Specifies the warning messages that were generated during the import.

3.1.5.37.1.2 ObjectPath Properties

None.

3.1.5.37.2 Methods

3.1.5.37.2.1 Scalar Methods

3.1.5.37.2.1.1 ExportSearchConfiguration

Return Type: CSOM String

This method exports the search settings at the specified site server level. This method MUST only export the search setting added by the user and MUST NOT export the out-of-box search settings.

Parameters:

owningScope: Specifies the site server level at which to export the search settings.

Type: Microsoft.SharePoint.Client.Search.Administration.SearchObjectOwner

3.1.5.37.2.1.2 ImportSearchConfiguration

Return Type: None

This method imports the search settings at the specified site server level.

Parameters:

owningScope: Specifies the site server level at which to import the search settings.

Type: Microsoft.SharePoint.Client.Search.Administration.SearchObjectOwner

searchConfiguration: Specifies the search settings to be imported at the specified site server level. This is obtained by exporting the search setting using the **ExportSearchConfiguration** (section [3.1.5.37.2.1.1](#)) method.

Type: CSOM String

3.1.5.37.2.1.3 DeleteSearchConfiguration

Return Type: None

This method deletes the search settings at the specified site server level.

Parameters:

owningScope: Specifies the site server level at which to delete the search settings.

Type: Microsoft.SharePoint.Client.Search.Administration.SearchObjectOwner

searchConfiguration: Specifies the search settings that MUST be deleted.

Type: CSOM String

3.1.5.37.2.2 ObjectPath Methods

3.1.5.37.2.2.1 CSOM Constructor

Initializes a new instance of the **SearchConfigurationPortability** object.

Parameters: None

3.1.5.38 Microsoft.SharePoint.Client.Search.Query.PopularQuery

TypeId: {CEA115D6-87EC-4E1C-AA4A-B8D44D6CD10D}

ShortName: Microsoft.SharePoint.Client.Search.Query.PopularQuery

This object is used by the **ExportPopularQuery** method (section [3.1.5.18.2.1.4](#)) and contains data about a popular query. Popular queries are used by query rules to trigger popular query conditions.

3.1.5.38.1 Properties

3.1.5.38.1.1 Scalar Properties

3.1.5.38.1.1.1 ClickCount

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of times a user clicked at least once on any of the search results returned by this query.

3.1.5.38.1.1.2 LCID

Type: CSOM Int32

Accessibility: Read/Write

Specifies the language of the query text as a language code identifier (LCID).

3.1.5.38.1.1.3 QueryCount

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of times this query was issued.

3.1.5.38.1.1.4 QueryText

Type: CSOM String

Accessibility: Read/Write

Specifies the text of this search query.

3.1.5.38.1.2 ObjectPath Properties

None.

3.1.5.39 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletion

TypeId: {A2967D9C-4DE2-4B3E-B803-DDE07ACEDE25}

ShortName: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletion

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25](#).

3.1.5.39.1 Properties

3.1.5.39.1.1 Scalar Properties

3.1.5.39.1.1.1 Matches

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.39.1.1.2 Query

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.3](#).

3.1.5.39.1.1.3 Score

Type: CSOM Double

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.3](#).

3.1.5.39.1.1.4 Source

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.3](#).

3.1.5.39.1.2 ObjectPath Properties

None.

3.1.5.40 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch

TypeId: {A2D57556-71DD-447A-8B8F-00EF0AE9AFD5}

ShortName: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1 Properties

3.1.5.40.1.1 Scalar Properties

3.1.5.40.1.1.1 Alternation

Type: CSOM Boolean

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.2 Key

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.3 Length

Type: CSOM Int64

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.4 MatchType

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.5 Score

Type: CSOM Double

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.6 SourceName

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.7 Start

Type: CSOM Int64

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.1.8 Value

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.4](#).

3.1.5.40.1.2 ObjectPath Properties

None.

3.1.5.41 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults

TypeId: {A18D0722-E006-476B-B783-8F64C2859507}

ShortName: Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.5](#).

3.1.5.41.1 Properties

3.1.5.41.1.1 Scalar Properties

3.1.5.41.1.1.1 CoreExecutionTimeMs

Type: CSOM Int64

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.5](#).

3.1.5.41.1.1.2 CorrelationId

Type: CSOM String

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.5](#).

3.1.5.41.1.1.3 Queries

Type: CSOM array of Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletion

Accessibility: Read/Write

Specified in [\[MS-QSSWS\]](#) section [3.1.4.25.3.5](#).

3.1.5.41.1.2 ObjectPath Properties

None.

3.1.5.42 Microsoft.SharePoint.Client.Search.Query.QuerySuggestionRange

TypeId: {6B42D4EE-3341-42EB-84B8-9DAE18493482}

ShortName: Microsoft.SharePoint.Client.Search.Query.QuerySuggestionRange

This type is not used.

3.1.5.42.1 Properties

3.1.5.42.1.1 Scalar Properties

3.1.5.42.1.1.1 Length

Type: CSOM Int32

Accessibility: Read/Write

This property is not used.

3.1.5.42.1.1.2 Start

Type: CSOM Int32

Accessibility: Read/Write

This property is not used.

3.1.5.42.1.2 ObjectPath Properties

None.

3.1.5.43 Microsoft.Office.Server.Search.Encryption.CertificateService

TypeId: {AAA4950C-5217-4DB9-A2FF-6EBA2B2CEE35}

ShortName: Microsoft.Office.Server.Search.Encryption.CertificateService

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.CertificateService instead.

3.1.5.43.1 Properties

3.1.5.43.1.1 Scalar Properties

None.

3.1.5.43.1.2 ObjectPath Properties

None.

3.1.5.43.2 Methods

3.1.5.43.2.1 Scalar Methods

3.1.5.43.2.1.1 ValidContentEncryptionCertificates

Return Type: CSOM array of **CSOM binary**

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.CertificateService instead.

Parameters: None

3.1.5.43.2.1.2 CertificateSettings

Return Type: CSOM dictionary

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.CertificateService instead.

Parameters: None

3.1.5.43.2.2 ObjectPath Methods

3.1.5.43.2.2.1 CSOM Constructor

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.CertificateService instead.

Parameters: None

3.1.5.44 Microsoft.SharePoint.Client.Search.AzureBroker.PushTenantManager

TypeId: {FA79227A-CE0A-4505-8E85-FB69E8E5E376}

ShortName: Microsoft.SharePoint.Client.Search.AzureBroker.PushTenantManager

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager instead.

3.1.5.44.1 Properties

3.1.5.44.1.1 Scalar Properties

None.

3.1.5.44.1.2 ObjectPath Properties

None.

3.1.5.44.2 Methods

3.1.5.44.2.1 Scalar Methods

3.1.5.44.2.1.1 PreparePushTenant

Return Type: None

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager instead.

Parameters: None

3.1.5.44.2.2 ObjectPath Methods

3.1.5.44.2.2.1 CSOM Constructor

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager instead.

Parameters: None

3.1.5.44.2.2.2 GetPushServiceInfo

Return Type: Microsoft.SharePoint.Client.Search.Administration.PushTenantServiceInfo

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager instead.

Parameters: None

3.1.5.45 Microsoft.SharePoint.Client.Search.Administration.PushTenantServiceInf

o

TypeId: {94031BAB-C6DF-444A-B900-9F3C3430D783}

ShortName: Microsoft.SharePoint.Client.Search.Administration.PushTenantServiceInfo

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager and Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo instead.

3.1.5.45.1 Properties

3.1.5.45.1.1 Scalar Properties

3.1.5.45.1.1.1 EndpointAddress

Type: CSOM String

Accessibility: Read Only

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager and Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo instead.

3.1.5.45.1.1.2 ValidContentEncryptionCertificates

Type: CSOM array of CSOM binary

Accessibility: Read Only

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager and Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo instead.

3.1.5.45.1.1.3 AuthenticationRealm

Type: CSOM String

Accessibility: Read Only

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager and Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo instead.

3.1.5.45.1.1.4 TenantId

Type: CSOM String

Accessibility: Read Only

Deprecated: Use Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager and Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo instead.

3.1.5.45.1.2 ObjectPath Properties

None.

3.1.5.45.2 Methods

3.1.5.45.2.1 Scalar Methods

None.

3.1.5.45.2.2 ObjectPath Methods

None.

3.1.5.46 Microsoft.SharePoint.Client.Search.ContentPush.CertificateService

TypeId: {B9E0DB1D-0B4C-4010-9EA5-43E1BC7041D0}

ShortName: Microsoft.SharePoint.Client.Search.ContentPush.CertificateService

This object contains methods to get the currently valid certificates for content encryption, and information about the certificates, for a farm and/or tenant in the search content service.

3.1.5.46.1 Properties

3.1.5.46.1.1 Scalar Properties

None.

3.1.5.46.1.2 ObjectPath Properties

None.

3.1.5.46.2 Methods

3.1.5.46.2.1 Scalar Methods

3.1.5.46.2.1.1 CertificateSettings

Return Type: CSOM dictionary

This method is called to get the settings for, and information about, certificates used with the search content service. The settings include:

- "CertificatePollIntervalInSeconds": The maximum number of seconds the certificates can be assumed to be valid.

Parameters: None

3.1.5.46.2.1.2 ValidContentEncryptionCertificates

Return Type: CSOM array of CSOM binary

This method is called to get the current list of valid content encryption certificates for the farm and/or tenant.

Content to be submitted to the search content service must be encrypted to all current encryption certificates. The client may assume the certificates are valid for the number of seconds in "CertificatePollIntervalInSeconds", but must then call this method again to refresh the list. Certificates not on the current list are no longer valid and must not be used.

Parameters: None

3.1.5.46.2.2 ObjectPath Methods

3.1.5.46.2.2.1 CSOM Constructor

Initializes a new instance of the **CertificateService** object.

Parameters: None

3.1.5.47 Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager

TypeId: {098AD99C-6F30-478B-9EA7-F8C3AB3F0083}

ShortName: Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager

This object contains methods that can be used to prepare and manage the destination search farm to receive the content for the current tenant via the search content service.

3.1.5.47.1 Properties

3.1.5.47.1.1 Scalar Properties

None.

3.1.5.47.1.2 ObjectPath Properties

None.

3.1.5.47.2 Methods

3.1.5.47.2.1 Scalar Methods

3.1.5.47.2.1.1 PreparePushTenant

Return Type: None

This method is called to prepare the destination search farm to receive content for the current tenant via the search content service.

Parameters: None

3.1.5.47.2.2 ObjectPath Methods

3.1.5.47.2.2.1 CSOM Constructor

Initializes a new instance of the **PushTenantManager** object.

Parameters: None

3.1.5.47.2.2.2 GetPushServiceInfo

Return Type: Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo

This method is called to get the information about the search content service instance for this push tenant.

Parameters: None

3.1.5.48 Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo

TypeId: {E5BBC713-0FC0-4F7C-9322-AD09695FAABD}

ShortName: Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo

This object contains properties that describe how to connect to and use the search content service in order to push content for a given tenant.

3.1.5.48.1 Properties

3.1.5.48.1.1 Scalar Properties

3.1.5.48.1.1.1 AuthenticationRealm

Type: CSOM String

Accessibility: Read Only

This property contains the authentication realm to be used when authenticating to the search content service for this tenant.

3.1.5.48.1.1.2 EndpointAddress

Type: CSOM String

Accessibility: Read Only

This property contains the endpoint address (URI) of the search content service instance for this tenant.

3.1.5.48.1.1.3 ServiceProperties

Type: CSOM dictionary

Accessibility: Read Only

This property contains the service properties of the search content service instance for this tenant. The properties include:

- "CertificatePollIntervalInSeconds": The maximum number of seconds the certificates can be assumed to be valid. Same as the corresponding setting in CertificateService.CertificateSettings.

3.1.5.48.1.1.4 TenantId

Type: CSOM String

Accessibility: Read Only

This property contains the tenant identifier used to identify the tenant's documents in the search content service and index. In order to submit documents with this tenant ID, the client must authenticate with an authentication realm that is authorized for this tenant, i.e. the realm returned in the AuthenticationRealm property.

3.1.5.48.1.1.5 ValidContentEncryptionCertificates

Type: CSOM array of CSOM binary

Accessibility: Read Only

This property contains the current list of valid content encryption certificates for the farm and/or tenant.

Content to be submitted to the search content service must be encrypted to all current encryption certificates. The client may assume the certificates are valid until the time returned in the ValidUntil property, but must then refresh the list by invoking GetPushServiceInfo again. Certificates not on the current list are no longer valid and must not be used.

GetPushServiceInfo will at most set ValidUntil to current time plus the number of seconds in CertificatePollIntervalInSeconds, so for a client using GetPushServiceInfo to get certificates, it can use either property to determine how frequently to poll for new certificates.

Getting the certificates through this property or through the ValidContentEncryptionCertificates method of the CertificateService object is equivalent.

3.1.5.48.1.1.6 ValidUntil

Type: CSOM DateTime

Accessibility: Read Only

This property contains a time indicating how long the information in this object can be considered valid. After this time has expired, the information must be refreshed by invoking GetPushServiceInfo again.

3.1.5.48.1.2 ObjectPath Properties

None.

3.1.5.48.2 Methods

3.1.5.48.2.1 Scalar Methods

None.

3.1.5.48.2.2 ObjectPath Methods

None.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

Preliminary

4 Protocol Examples

4.1 Search for the keyword "home"

In this example a search is issued for the keyword "home".

Request

```
<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="191" ObjectPathId="190" />
    <SetProperty Id="192" ObjectPathId="190" Name="QueryText">
      <Parameter Type="String">home</Parameter>
    </SetProperty>
    <ObjectPath Id="194" ObjectPathId="193" />
    <Method Name="Clear" Id="195" ObjectPathId="193" />
    <SetProperty Id="196" ObjectPathId="190" Name="StartRow">
      <Parameter Type="Number">0</Parameter>
    </SetProperty>
    <ObjectPath Id="198" ObjectPathId="197" />
    <Method Name="Clear" Id="199" ObjectPathId="197" />
    <SetProperty Id="200" ObjectPathId="190" Name="HiddenConstraints">
      <Parameter Type="String"></Parameter>
    </SetProperty>
    <SetProperty Id="201" ObjectPathId="190" Name="Culture">
      <Parameter Type="Number">1033</Parameter>
    </SetProperty>
    <SetProperty Id="202" ObjectPathId="190" Name="RowsPerPage">
      <Parameter Type="Number">10</Parameter>
    </SetProperty>
    <SetProperty Id="203" ObjectPathId="190" Name="RowLimit">
      <Parameter Type="Number">10</Parameter>
    </SetProperty>
    <SetProperty Id="204" ObjectPathId="190" Name="TotalRowsExactMinimum">
      <Parameter Type="Number">31</Parameter>
    </SetProperty>
    <SetProperty Id="205" ObjectPathId="190" Name="SourceId">
      <Parameter Type="Guid">{8413cd39-2156-4e00-b54d-11efd9abdb89}</Parameter>
    </SetProperty>
    <SetProperty Id="206" ObjectPathId="190" Name="Refiners">
      <Parameter Type="String"></Parameter>
    </SetProperty>
    <SetProperty Id="207" ObjectPathId="190" Name="Refiners">
      <Parameter Type="String">Author(filter=7/0/*),LastModifiedTime(discretize>manual/2010-
11-17T08:00:00Z/2011-05-21T07:00:00Z/2011-10-18T07:00:00Z/2011-11-10T08:00:00Z/2011-11-
17T08:00:00Z),FormatId(filter=7/0/*),contentclass(filter=7/0/*)</Parameter>
    </SetProperty>
    <ObjectPath Id="209" ObjectPathId="208" />
    <Method Name="Clear" Id="210" ObjectPathId="208" />
    <Method Name="Add" Id="211" ObjectPathId="208">
      <Parameters>
        <Parameter Type="String">WorkId</Parameter>
      </Parameters>
    </Method>
    <Method Name="Add" Id="212" ObjectPathId="208">
      <Parameters>
        <Parameter Type="String">Rank</Parameter>
      </Parameters>
    </Method>
    <Method Name="Add" Id="213" ObjectPathId="208">
      <Parameters>
        <Parameter Type="String">Title</Parameter>
      </Parameters>
    </Method>
    <Method Name="Add" Id="214" ObjectPathId="208">
```

```

    <Parameters>
      <Parameter Type="String">Author</Parameter>
    </Parameters>
  </Method>
<Method Name="Add" Id="215" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">Size</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="216" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">Path</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="217" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">Description</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="218" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">Write</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="219" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">SiteName</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="220" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">CollapsingStatus</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="221" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">HitHighlightedSummary</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="222" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">HitHighlightedProperties</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="223" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ContentClass</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="224" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">IsDocument</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="225" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">PictureThumbnailURL</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="226" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ServerRedirectedURL</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="227" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ServerRedirectedEmbedURL</Parameter>
  </Parameters>
</Method>

```



```

<Method Name="Add" Id="228" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ServerRedirectedPreviewURL</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="229" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">FileExtension</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="230" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">DocumentSummarySize</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="231" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">DocumentSummary</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="232" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ContentTypeId</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="233" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ParentLink</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="234" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ViewsLifeTime</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="235" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">ViewsRecent</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="236" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">SectionNames</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="237" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">SectionIndexes</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="238" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">SiteLogo</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="239" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">SiteDescription</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="240" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">deeplinks</Parameter>
  </Parameters>
</Method>
<Method Name="Add" Id="241" ObjectPathId="208">
  <Parameters>
    <Parameter Type="String">importance</Parameter>
  </Parameters>

```

```

</Method>
<ObjectPath Id="243" ObjectPathId="242" />
<Method Name="Clear" Id="244" ObjectPathId="242" />
<SetProperty Id="245" ObjectPathId="190" Name="EnableStemming">
  <Parameter Type="Boolean">true</Parameter>
</SetProperty>
<SetProperty Id="246" ObjectPathId="190" Name="EnablePhonetic">
  <Parameter Type="Boolean">>false</Parameter>
</SetProperty>
<SetProperty Id="247" ObjectPathId="190" Name="EnableNicknames">
  <Parameter Type="Boolean">>false</Parameter>
</SetProperty>
<SetProperty Id="248" ObjectPathId="190" Name="TrimDuplicates">
  <Parameter Type="Boolean">true</Parameter>
</SetProperty>
<SetProperty Id="249" ObjectPathId="190" Name="ResultsUrl">
  <Parameter
Type="String">http://contoso/sites/search/_layouts/15/start.aspx#/sites/search/Pages/results.
aspx?k=page#hp=%7B%22Default%22%3A%7B%22s%22%3A%2C%22l%22%3A-1%2C%22d%22%3A-
1%2C%22k%22%3A%22home%22%2C%22o%22%3Anull%2C%22x%22%3Anull%2C%22r%22%3Anull%2C%22m%22%3A%22%2
2%7D%7D</Parameter>
</SetProperty>
<SetProperty Id="250" ObjectPathId="190" Name="BypassResultTypes">
  <Parameter Type="Boolean">>false</Parameter>
</SetProperty>
<SetProperty Id="251" ObjectPathId="190" Name="ClientType">
  <Parameter Type="String">UI</Parameter>
</SetProperty>
<ObjectPath Id="253" ObjectPathId="252" />
<Method Name="Clear" Id="254" ObjectPathId="252" />
<SetProperty Id="255" ObjectPathId="190" Name="EnableInterleaving">
  <Parameter Type="Boolean">>false</Parameter>
</SetProperty>
<ObjectPath Id="257" ObjectPathId="256" />
<ExceptionHandlingScope Id="258">
  <TryScope Id="260">
    <Method Name="ExecuteQueries" Id="262" ObjectPathId="256">
      <Parameters>
        <Parameter Type="Array">
          <Object Type="String">Default</Object>
        </Parameter>
        <Parameter Type="Array">
          <Object ObjectPathId="190" />
        </Parameter>
      </Parameters>
    </Method>
  </TryScope>
  <CatchScope Id="264" />
</ExceptionHandlingScope>
</Actions>
<ObjectPaths>
  <Constructor Id="190" TypeId="{80173281-fffd-47b6-9a49-312e06ff8428}">
    <Parameters>
      <Parameter ObjectPathId="8" />
    </Parameters>
  </Constructor>
  <Property Id="193" ParentId="190" Name="SortList" />
  <Property Id="197" ParentId="190" Name="RefinementFilters" />
  <Property Id="208" ParentId="190" Name="SelectProperties" />
  <Property Id="242" ParentId="190" Name="HitHighlightedProperties" />
  <Property Id="252" ParentId="190" Name="ReorderingRules" />
  <Constructor Id="256" TypeId="{8d2ac302-db2f-46fe-9015-872b35f15098}" />
  <Property Id="8" ParentId="6" Name="Site" />
  <StaticProperty Id="6" TypeId="{3747adcd-a3c3-41b9-bfab-4a64dd2f1e0a}" Name="Current" />
</ObjectPaths>
</Request>

```

Response

```
[
{
"SchemaVersion":"15.0.0.0","LibraryVersion":"15.0.3514.1000","ErrorInfo":null
},191,{
"IsNull":false
},194,{
"IsNull":false
},198,{
"IsNull":false
},209,{
"IsNull":false
},243,{
"IsNull":false
},253,{
"IsNull":false
},257,{
"IsNull":false
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Preliminary

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

Preliminary

6 Appendix A: Product Behavior

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

- Microsoft SharePoint Foundation 2013
- Microsoft SharePoint Server 2013
- Microsoft SharePoint Server 2016 Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

Preliminary

7 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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 or functionality.
- The removal of a document from the documentation set.

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 **Editorial** means that the formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.
- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

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

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|-----------------------|--------------------|
| 3.1.5.5.1.1.46 TimeZoneId | Added new section for this property. | Y | New content added. |
| 3.1.5.7.2.1.1 autocompletions | Added new section for this property. | Y | New content added. |
| 3.1.5.7.2.1.3 query | Added timeZoneId parameter for this method. | Y | New content added. |
| 3.1.5.7.2.1.4 RecordPageClick | Added new section for this method. | Y | New content added. |
| 3.1.5.7.2.1.5 resultspageaddress | Added new section for this method. | Y | New content added. |
| 3.1.5.7.2.1.6 searchcenterurl | Added new section for this method. | Y | New content added. |
| 3.1.5.9.1.1.41 TimeZoneId | Added new section for this property. | Y | New content added. |
| 3.1.5.9.2.1.2 GetQueryCompletions | Added new section for this method. | Y | New content added. |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|-----------------------|--------------------|
| 3.1.5.12.2.1.2 GetQueryCompletions | Added new section for this method. | Y | New content added. |
| 3.1.5.39 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletion | Added new section for this object. | Y | New content added. |
| 3.1.5.39.1.1.1 Matches | Added new section for this property. | Y | New content added. |
| 3.1.5.39.1.1.2 Query | Added new section for this property. | Y | New content added. |
| 3.1.5.39.1.1.3 Score | Added new section for this property. | Y | New content added. |
| 3.1.5.39.1.1.4 Source | Added new section for this property. | Y | New content added. |
| 3.1.5.40 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch | Added new section for this object. | Y | New content added. |
| 3.1.5.40.1.1.1 Alternation | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.2 Key | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.3 Length | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.Qu | Y | New content |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|-----------------------|--------------------|
| | eryAutoCompletionMatch. | | added. |
| 3.1.5.40.1.1.4 MatchType | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.5 Score | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.6 SourceName | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.7 Start | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.40.1.1.8 Value | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionMatch. | Y | New content added. |
| 3.1.5.41 Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults | Added new section for this object. | Y | New content added. |
| 3.1.5.41.1.1.1 CoreExecutionTimeMs | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults. | Y | New content added. |
| 3.1.5.41.1.1.2 CorrelationId | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults. | Y | New content added. |
| 3.1.5.41.1.1.3 Queries | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QueryAutoCompletionResults. | Y | New content added. |

| Section | Tracking number (if applicable) and description | Maj or change (Y or N) | Change type |
|--|--|------------------------|--------------------|
| 3.1.5.42 Microsoft.SharePoint.Client.Search.Query.QuerySuggestionRange | Added new section for this object. | Y | New content added. |
| 3.1.5.42.1.1.1 Length | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QuerySuggestionRange. | Y | New content added. |
| 3.1.5.42.1.1.2 Start | Added new section for this property in Microsoft.SharePoint.Client.Search.Query.QuerySuggestionRange. | Y | New content added. |
| 3.1.5.43 Microsoft.Office.Server.Search.Encryption.CertificateService | Added new section for this object. | Y | New content added. |
| 3.1.5.43.2.1.1 ValidContentEncryptionCertificates | Added new section for this method in Microsoft.Office.Server.Search.Encryption.CertificateService. | Y | New content added. |
| 3.1.5.43.2.1.2 CertificateSettings | Added new section for this method in Microsoft.Office.Server.Search.Encryption.CertificateService. | Y | New content added. |
| 3.1.5.43.2.2.1 CSOM Constructor | Added new section for this method in Microsoft.Office.Server.Search.Encryption.CertificateService. | Y | New content added. |
| 3.1.5.44 Microsoft.SharePoint.Client.Search.AzureBroker.PushTenantManager | Added new section for this object. | Y | New content added. |
| 3.1.5.44.2.1.1 PreparePushTenant | Added new section for this method in Microsoft.SharePoint.Client.Search.AzureBroker.PushTenantManager. | Y | New content added. |
| 3.1.5.44.2.2.1 CSOM Constructor | Added new section for this method in Microsoft.SharePoint.Client.Search.AzureBro | Y | New content |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---|---|-----------------------|--------------------|
| | ker.PushTenantManager. | | added. |
| 3.1.5.44.2.2.2 GetPushServiceInfo | Added section for this method. | Y | New content added. |
| 3.1.5.45 Microsoft.SharePoint.Client.Search.Administration.PushTenantServiceInfo | Added section for this object. | Y | New content added. |
| 3.1.5.45.1.1.1 EndpointAddress | Added section for this property. | Y | New content added. |
| 3.1.5.45.1.1.2 ValidContentEncryptionCertificates | Added section for this property. | Y | New content added. |
| 3.1.5.45.1.1.3 AuthenticationRealm | Added section for this property. | Y | New content added. |
| 3.1.5.45.1.1.4 TenantId | Added section for this property. | Y | New content added. |
| 3.1.5.47 Microsoft.SharePoint.Client.Search.ContentPush.PushTenantManager | PushTenantManager object added. | Y | New content added. |
| 3.1.5.47.2.1.1 PreparePushTenant | PreparePushTenant method added. | Y | New content added. |
| 3.1.5.47.2.2.1 CSOM Constructor | CSOM constructor added. | Y | New content added. |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|--|--|-----------------------|---|
| 3.1.5.47.2.2.2 GetPushServiceInfo | GetPushServiceInfo method added. | Y | New content added. |
| 3.1.5.48 Microsoft.SharePoint.Client.Search.ContentPush.PushTenantServiceInfo | PushTenantServiceInfo object added. | Y | New content added. |
| 3.1.5.48.1.1.1 AuthenticationRealm | AuthenticationRealm property added. | Y | New content added. |
| 3.1.5.48.1.1.2 EndpointAddress | EndpointAddress property added. | Y | New content added. |
| 3.1.5.48.1.1.3 ServiceProperties | ServiceProperties property added. | Y | New content added. |
| 3.1.5.48.1.1.4 TenantId | TenantId property added. | Y | New content added. |
| 3.1.5.48.1.1.5 ValidContentEncryptionCertificates | ValidContentEncryptionCertificates property added. | Y | New content added. |
| 3.1.5.48.1.1.6 ValidUntil | ValidUntil property added. | Y | New content added. |
| 6 Appendix A: Product Behavior | Updated list of supported products. | Y | Content updated due to protocol revision. |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|---------|---|-----------------------|-------------|
| | | | on. |

Preliminary

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