

# [MS-SADMWS]: Search Site Administration Web Service Protocol Specification

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## Revision Summary

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# 1 Introduction

This document specifies the Search Site Administration Web Service Protocol. This protocol enables a protocol client to administer search functionality in the protocol server.

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

## 1.1 Glossary

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

**Coordinated Universal Time (UTC)**  
**GUID**  
**Hypertext Transfer Protocol (HTTP)**  
**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**  
**Kerberos**  
**Transmission Control Protocol (TCP)**  
**XML**

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

**best bet**  
**content source**  
**cookie**  
**datetime**  
**endpoint**  
**federated location**  
**folder**  
**host name**  
**Hypertext Markup Language (HTML)**  
**item**  
**keyword**  
**keyword consumer**  
**keyword synonym**  
**local search scope**  
**managed property**  
**proxy**  
**query text**  
**restriction**  
**search alert**  
**search application**  
**search index**  
**search query**  
**search scope**  
**search scope compilation**  
**search scope consumer**  
**search scope display group**  
**search scope rule**  
**search scope rule value**  
**search scopes system**  
**search service application**  
**shared search scope**

**Simple Object Access Protocol (SOAP)**  
**single sign-on (SSO)**  
**site**  
**site collection**  
**site collection administrator**  
**site scope**  
**SOAP action**  
**SOAP body**  
**SOAP fault**  
**strong name**  
**subdomain**  
**Uniform Resource Identifier (URI)**  
**Uniform Resource Locator (URL)**  
**user name**  
**version**  
**visualization**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL operation**  
**XML schema**  
**XSL Transformation (XSLT)**

The following terms are specific to this document:

**federated location definition:** The configuration settings that describe how to issue a query for a given federated location and display the search results.

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

## 1.2 References

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

### 1.2.1 Normative References

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

[MC-RegEx] Microsoft Corporation, "Regular Expression Language Elements", [http://msdn.microsoft.com/en-us/library/az24scfc\(VS.80\).aspx](http://msdn.microsoft.com/en-us/library/az24scfc(VS.80).aspx)

[MSDN-TSQL-Ref] Microsoft Corporation, "Transact-SQL Reference", [http://msdn.microsoft.com/en-us/library/ms189826\(SQL.90\).aspx](http://msdn.microsoft.com/en-us/library/ms189826(SQL.90).aspx)

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

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol Specification](#)".



- [MS-SQLPADM] Microsoft Corporation, "[SQL Administration Protocol Specification](#)".
- [OpenSearch1.1-Draft3] DeWitt, C., "Specifications/OpenSearch/1.1/Draft 3", <http://www.opensearch.org/Specifications/OpenSearch/1.1>
- [RFC1738] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)", RFC 1738, December 1994, <http://www.ietf.org/rfc/rfc1738.txt>
- [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>
- [RFC2396] Berners-Lee, T., Fielding, R., and Masinter, L., "Uniform Resource Identifiers (URI): Generic Syntax", RFC 2396, August 1998, <http://www.ietf.org/rfc/rfc2396.txt>
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- [RFC2965] Kristol, D., and Montulli, L., "HTTP State Management Mechanism", RFC 2965, October 2000, <http://www.ietf.org/rfc/rfc2965.txt>
- [RFC3339] Klyne, G., and Newman, C., "Date and Time on the Internet: Timestamps", RFC 3339, July 2002, <http://www.ietf.org/rfc/rfc3339.txt>
- [RFC3986] Berners-Lee, T., Fielding, R., and Masinter, L., "Uniform Resource Identifier (URI): Generic Syntax", STD 66, RFC 3986, January 2005, <http://www.ietf.org/rfc/rfc3986.txt>
- [SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>
- [SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>
- [WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>
- [XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>
- [XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>
- [XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

## 1.2.2 Informative References

- [MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".
- [MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".
- [MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol Specification](#)".
- [RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation, August 2006, <http://www.w3.org/TR/2006/REC-xml-20060816/>

### 1.3 Protocol Overview (Synopsis)

This protocol enables a protocol client to administer search functionality for a **site collection** in the **search application**. The protocol client can configure and control **best bets**, **keyword** definitions, **search scopes**, and **federated location** information for the site collection.

Best bets is a feature that allows the **site collection administrator** to define one or more **URLs** as authoritative references for a given **search query**. The keyword definitions feature allows the site administrator to provide a textual definition for a given search query. When users search for the specified search query the best bet URLs and keyword definitions for that search query can be retrieved by the protocol client.

Search scopes allow a portion of **items** in the **search index** to be grouped based upon a set of attributes. A search scope can either be a **shared search scope** or a **site scope**. This protocol allows the protocol client to retrieve both types of scopes, but only site scopes can be created and modified. **Search scope display groups** can be created, and a search scope can be added to a search scope display group by the protocol client.

Federated locations are created and managed with the [federation object model](#). This protocol allows a protocol client to retrieve properties of a given federated location so search queries can be issued to the federated location. This protocol also allows a protocol client to create, update, and delete a federated location.

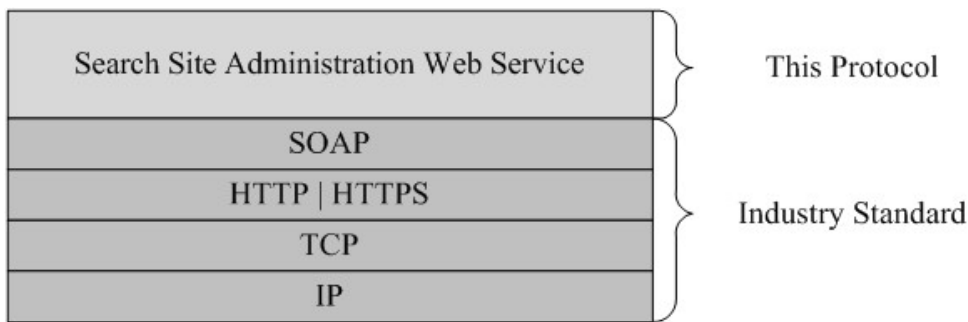
Typical scenarios for using this protocol include:

- Creating, managing, and retrieving search scopes and search scope display groups.
- Creating and managing best bets and keyword definitions.
- Retrieving federated location information to enable search queries to be sent to those federated locations.

### 1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#), or **TCP**.

The following diagram shows the underlying messaging and transport stack used by the protocol:



**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 (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#).

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

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

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

## 1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

This protocol was designed for use with less than or equal to 100 federated locations, 1000 search scopes, and 10,000 best bets.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol can be implemented by using transports that support sending Simple Object Access Protocol (SOAP) messages, as specified in [section 2.1](#).
- **Protocol Versions:** This protocol is not versioned.

**Capability Negotiation:** This protocol does not support version negotiation.

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

## 2 Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be empty, null, or not present but the behavior of the protocol as specified restricts the same elements to being non-empty, present, and not null.

### 2.1 Transport

Protocol servers MUST support SOAP over Hypertext Transfer Protocol (HTTP), Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), or TCP.

All protocol messages MUST be transported by using HTTP or TCP bindings at the transport level.

Protocol messages MUST be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Protocol server faults MUST be returned by using HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

If the HTTPS transport is used, a server certificate MUST be deployed.

This protocol MAY transmit an additional SOAP header, the **ServiceContext** header, as specified in [\[MS-SPSTWS\]](#) section 2.2.4.1, ServiceContext (from namespace <http://schemas.microsoft.com/sharepoint/servicecontext>).

This protocol does not define any means for activating a protocol server or protocol client. The protocol server MUST be configured and begin listening in an implementation-specific way. In addition, the protocol client MUST know the format and transport that is used by the server, for example, the SOAP format over an HTTP transport.

### 2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses XML Schema, as specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **WSDL**, as specified in [\[WSDL\]](#).

#### 2.2.1 Namespaces

This specification defines and references various XML namespaces using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific XML namespace prefix for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
wsam	<a href="http://www.w3.org/2007/05/addressing/metadata">http://www.w3.org/2007/05/addressing/metadata</a>	
tns	<a href="http://tempuri.org/">http://tempuri.org/</a>	
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>

Prefi x	Namespace URI	Reference
xsd	http://www.w3.org/2001/XMLSchema	<a href="#">[XMLSCHEMA1 1</a> <a href="#">[XMLSCHEMA2 1</a>
tns	http://tempuri.org/Imports	
q1	http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administ ration	
q3	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
q6	http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08	
q67	http://schemas.microsoft.com/2003/10/Serialization/	
q3	http://schemas.datacontract.org/2004/07/System.Globalization	
q4	http://schemas.datacontract.org/2004/07/System	
q9	http://schemas.datacontract.org/2004/07/System.Net	
q1	http://schemas.datacontract.org/2004/07/System.Security	

## 2.2.2 Messages

This specification does not define any common WSDL message definitions.

## 2.2.3 Elements

This specification does not define any common **XML schema** element definitions.

## 2.2.4 Complex Types

The following table summarizes the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

Complex Type	Description
AccountAuthCredentials	The <b>AccountAuthCredentials</b> complex type contains authentication credential information for an account.
ArrayOfanyType	The <b>ArrayOfanyType</b> complex type contains an array of anyType elements, which can be any data type.
ArrayOfDisplayGroupInfo	The <b>ArrayOfDisplayGroupInfo</b> complex type contains information about a collection of search scope display groups.
ArrayOfguid	The <b>ArrayOfguid</b> complex type is an array of guids.
ArrayOfint	The <b>ArrayOfint</b> complex type is an array of integers.
ArrayOfKeyValueOfanyURIBestBety6h3NzC8	The <b>ArrayOfKeyValueOfanyURIBestBety6h3NzC8</b>

Complex Type	Description
	complex type is a dictionary that maps from the URLs of best bets to the best bets.
ArrayOfKeyValueOfstringKeywordy6h3NzC8	The <b>ArrayOfKeyValueOfstringKeywordy6h3NzC8</b> complex type is a dictionary that maps from the search terms of keywords to the keywords.
ArrayOfKeyValueOfstringSecureStringX9wx7DhE	The <b>ArrayOfKeyValueOfstringSecureStringX9wx7DhE</b> complex type is a dictionary which maps a string key to an encrypted string value.
ArrayOfKeyValueOfstringstring	The <b>ArrayOfKeyValueOfstringstring</b> complex type is a dictionary which maps a string key to a string value.
ArrayOfKeyValueOfstringVisualizationy6h3NzC8	The <b>ArrayOfKeyValueOfstringVisualizationy6h3NzC8</b> complex type specifies a dictionary that maps a string key to <b>visualization</b> information associated with a federated location.
ArrayOfScopeInfo	The <b>ArrayOfScopeInfo</b> complex type contains information about a collection of search scopes.
ArrayOfstring	The <b>ArrayOfstring</b> complex type contains information about a collection of strings.
AuthenticationData	<p>The <b>AuthenticationData</b> complex type contains authentication information. It is extended by:</p> <ul style="list-style-type: none"> <li>▪ <b>CookieAuthData</b> complex type, as specified in section <a href="#">2.2.4.16</a>,</li> <li>▪ <b>SecurableAuthData</b> complex type, as specified in section section <a href="#">2.2.4.26</a>,</li> <li>▪ <b>AccountAuthCredentials</b> complex type, as specified in section <a href="#">2.2.4.1</a>,</li> <li>▪ <b>SsoAuthData</b> complex type, as specified in section <a href="#">2.2.4.28</a>.</li> </ul>
AuthenticationInformation	The <b>AuthenticationInformation</b> complex type contains authentication information for a federated location.
BestBet	The <b>BestBet</b> complex type contains information about a best bet.
CookieAuthData	The <b>CookieAuthData</b> complex type contains <b>cookie</b> based authentication information.
CookieCollection	The <b>CookieCollection</b> complex type is a collection container for instances of cookie.
DisplayGroupInfo	The <b>DisplayGroupInfo</b> complex type contains information about a search scope display group.
FormsAuthCredentials	The <b>FormsAuthCredentials</b> complex type contains

Complex Type	Description
	form based authentication information.
Keyword	The <b>Keyword</b> complex type contains information about a keyword.
LocationConfiguration	The <b>LocationConfiguration</b> complex type contains information about the configuration properties of a federated location.
ManagedPropertyInfo	The <b>ManagedPropertyInfo</b> complex type contains information about a <b>managed property</b> .
RuleInfo	The <b>RuleInfo</b> complex type contains information about a <b>search scope rule</b> .
ScopeInfo	The <b>ScopeInfo</b> complex type contains information about a search scope.
ScopesManagerInfo	The <b>ScopesManagerInfo</b> complex type represents the details of a <b>search scopes system</b> in a search application.
SecurableAuthData	The <b>SecurableAuthData</b> complex type contains the encrypted secure authentication information. It is extended by the <b>FormsAuthCredentials</b> complex type, as specified in section <a href="#">2.2.4.19</a> .
SecureString	The <b>SecureString</b> complex type is used for text that needs to be kept confidential.
SsoAuthData	The <b>SsoAuthData</b> complex type contains the <b>SSO</b> authentication information.
Synonym	The <b>Synonym</b> complex type contains information about a <b>keyword synonym</b> .
UserPreferenceSerializeHelper	The <b>UserPreferenceSerializeHelper</b> complex type helps with serialization of the preferences associated with a user.
Version	The <b>Version</b> complex type is used to store the <b>version</b> information about a system or application. Version information has four components represented by the four properties of the <b>Version</b> data type. The four components are represented using following format major.minor[.build[.revision]].
Visualization	The <b>Visualization</b> complex type contains information about the display format for the results from a federated location, including list of metadata to retrieve, sample results data for editing mode, and the XSL Transformation of the result XML. For convenience, each federated location MUST have three well known visualizations, each has a reserved name, including "full", "summary", and "topanswer". Besides these three types of visualization with reserved names, other custom visualizations can be added to a location using other unique names, as well.



### 2.2.4.1 AccountAuthCredentials

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **AccountAuthCredentials** complex type contains authentication credential information for an account.

```
<xs:complexType name="AccountAuthCredentials">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element minOccurs="0" name="Password" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="_UserName" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**Password:** the password information of the account credential.

**\_UserName:** the user name information of the account credential.

### 2.2.4.2 ArrayOfanyType

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfanyType** complex type contains an array of anyType elements, which can be any data type.

```
<xs:complexType name="ArrayOfanyType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"
type="xs:anyType"/>
  </xs:sequence>
</xs:complexType>
```

**anyType:** Specifies an element of any arbitrary object type. The meaning of the element and whether the element's value is limited to a certain range depend on the context of usage.

### 2.2.4.3 ArrayOfDisplayGroupInfo

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ArrayOfDisplayGroupInfo** complex type contains information about a collection of search scope display groups.

```
<xs:complexType name="ArrayOfDisplayGroupInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DisplayGroupInfo" nillable="true"
type="tns:DisplayGroupInfo"/>
  </xs:sequence>
</xs:complexType>
```

**DisplayGroupInfo:** The **DisplayGroupInfo** element contains information about a search scope display group. Each **DisplayGroupInfo** element MUST be a **DisplayGroupInfo** data type as specified in section [2.2.4.18](#).

#### 2.2.4.4 ArrayOfguid

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfguid** complex type is an array of **guids**.

```
<xs:complexType name="ArrayOfguid">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid"/>
  </xs:sequence>
</xs:complexType>
```

**guid:** Specifies a globally unique identifier (GUID).

#### 2.2.4.5 ArrayOfint

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfint** complex type is an array of integers.

```
<xs:complexType name="ArrayOfint">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**int:** Specifies an integer. The meaning of the element and the boundary of the element's value depend on the context of usage.

#### 2.2.4.6 ArrayOfKeyValueOfanyURIBestBety6h3NzC8

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfKeyValueOfanyURIBestBety6h3NzC8** complex type is a dictionary that maps from the URLs of best bets to the best bets.

```
<xs:complexType name="ArrayOfKeyValueOfanyURIBestBety6h3NzC8">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfanyURIBestBety6h3NzC8">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:anyURI"/>
          <xs:element name="Value" nillable="true"
            xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
            on" type="q4:BestBet"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

**KeyValueOfanyURIBestBety6h3NzC8:** Specifies a mapping relationship between the URL of a best bet and the best bet where the **Key** element MUST be a **BestBet.url** data type as specified in section [2.2.4.15](#), and the **Value** element MUST be a **BestBet** data type as specified in section [2.2.4.15](#). The value of **Key** MUST be equal to the value of the **url** property of **Value**.

**KeyValueOfanyURIBestBety6h3NzC8.Key:** Specifies the URL of a best bet. MUST NOT be NULL.

**KeyValueOfanyURIBestBety6h3NzC8.Value:** Specifies a best bet. MUST NOT be NULL.

### 2.2.4.7 ArrayOfKeyValueOfstringKeywordy6h3NzC8

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfKeyValueOfstringKeywordy6h3NzC8** complex type is a dictionary that maps from the search terms of keywords to the keywords.

```
<xs:complexType name="ArrayOfKeyValueOfstringKeywordy6h3NzC8">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringKeywordy6h3NzC8">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:string"/>
          <xs:element name="Value" nillable="true"
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q3:Keyword"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

**KeyValueOfstringKeywordy6h3NzC8:** Specifies a mapping relationship between the search term of a keyword and the keyword where the **Key** element MUST be a **Keyword.term** data type, as specified in section [2.2.4.20](#) and the **Value** element MUST be a **Keyword** data type as specified in section [2.2.4.20](#). **Key**'s value MUST be equal to the value of **Value.term**.

**KeyValueOfstringKeywordy6h3NzC8.Key:** Specifies the search term of a keyword. MUST NOT be NULL.

**KeyValueOfstringKeywordy6h3NzC8.Value:** Specifies the keyword. MUST NOT be NULL.

### 2.2.4.8 ArrayOfKeyValueOfstringSecureStringX9wx7DhE

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfKeyValueOfstringSecureStringX9wx7DhE** complex type is a dictionary which maps a string key to an encrypted string value.

```
<xs:complexType name="ArrayOfKeyValueOfstringSecureStringX9wx7DhE">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfstringSecureStringX9wx7DhE">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:string"/>
          <xs:element name="Value" nillable="true"
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Security" type="q1:SecureString"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

**KeyValueOfstringSecureStringX9wx7DhE:** Specifies a mapping relationship between a string and an encrypted string.

**KeyValueOfstringSecureStringX9wx7DhE.Key:** Specifies a unique string that MUST NOT change after it is assigned an initial value. MUST NOT be NULL.

**KeyValueOfstringSecureStringX9wx7DhE.Value:** Specifies an encrypted string value. The protocol client decides the encryption algorithm. MAY be NULL.

#### 2.2.4.9 ArrayOfKeyValueOfstringstring

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfKeyValueOfstringstring** complex type is a dictionary which maps a string key to a string value.

```

<xs:complexType name="ArrayOfKeyValueOfstringstring">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringstring">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:string"/>
          <xs:element name="Value" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

**KeyValueOfstringstring:** Specifies a mapping relationship between two strings.

**KeyValueOfstringstring.Key:** Specifies a unique string value. MUST NOT be NULL.

**KeyValueOfstringstring.Value:** Specifies a string value. MAY be NULL.

#### 2.2.4.10 ArrayOfKeyValueOfstringVisualizationy6h3NzC8

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** complex type specifies a dictionary that maps a string key to visualization information associated with a federated location.

```

<xs:complexType name="ArrayOfKeyValueOfstringVisualizationy6h3NzC8">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded"
      name="KeyValueOfstringVisualizationy6h3NzC8">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:string"/>

```

```

        <xs:element name="Value" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q2:Visualization"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

**KeyValueOfstringVisualizationy6h3NzC8:** Specifies a mapping relationship between a string and visualization information associated with a federated location.

**KeyValueOfstringVisualizationy6h3NzC8.Key:** Specifies a unique string value that MUST NOT change. MUST NOT be NULL.

**KeyValueOfstringVisualizationy6h3NzC8.Value:** Specifies visualization information of a federated location. MUST be a **Visualization** data type as specified in section [2.2.4.32](#). MAY be NULL.

### 2.2.4.11 ArrayOfScopeInfo

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ArrayOfScopeInfo** complex type contains information about a collection of search scopes.

```

<xs:complexType name="ArrayOfScopeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ScopeInfo" nillable="true"
type="tns:ScopeInfo"/>
  </xs:sequence>
</xs:complexType>

```

**ScopeInfo:** The **ScopeInfo** element contains information about a search scope. Each ScopeInfo element MUST be a **ScopeInfo** data type as specified in section [2.2.4.24](#).

### 2.2.4.12 ArrayOfstring

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfstring** complex type contains information about a collection of strings.

```

<xs:complexType name="ArrayOfstring">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**string:** An array of Unicode characters.

### 2.2.4.13 AuthenticationData

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **AuthenticationData** complex type contains authentication information. It is extended by:

- **CookieAuthData** complex type, as specified in section [2.2.4.16](#),
- **SecurableAuthData** complex type, as specified in section [2.2.4.26](#),
- **AccountAuthCredentials** complex type, as specified in section [2.2.4.1](#),
- **SsoAuthData** complex type, as specified in section [2.2.4.28](#).

```
<xs:complexType name="AuthenticationData">
  <xs:sequence/>
</xs:complexType>
```

### 2.2.4.14 AuthenticationInformation

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **AuthenticationInformation** complex type contains authentication information for a federated location.

```
<xs:complexType name="AuthenticationInformation">
  <xs:sequence>
    <xs:element minOccurs="0" name="AuthenticationType" type="tns:FederationAuthType"/>
    <xs:element minOccurs="0" name="Data" nillable="true" type="tns:AuthenticationData"/>
  </xs:sequence>
</xs:complexType>
```

**AuthenticationType:** The **AuthenticationType** element contains the type of the authentication information. MUST be a **FederationAuthType** data type as specified in section [2.2.5.3](#).

**Data:** The **Data** element contains the authentication data. MUST be an **AuthenticationData** data type as specified in section [2.2.4.13](#).

### 2.2.4.15 BestBet

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **BestBet** complex type contains information about a best bet.

```
<xs:complexType name="BestBet">
  <xs:sequence>
    <xs:element minOccurs="0" name="description" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="id" type="xs:int"/>
    <xs:element minOccurs="0" name="title" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI"/>
  </xs:sequence>
```

```
</xs:complexType>
```

**description:** Specifies the description of the best bet. This value MAY be present and when present MUST contain a string with length not more than 500 characters.

**id:** Specifies the unique identifier of the best bet. MUST be non-negative.

**title:** Specifies the title of the best bet. It MUST be present and MUST be a string with length not more than 100 characters.

**url:** The URL of the best bet. This value MUST be present and MUST contain a valid absolute URL less than or equal to 2048 characters in length.

#### 2.2.4.16 CookieAuthData

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **CookieAuthData** complex type contains cookie based authentication information.

```
<xs:complexType name="CookieAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element minOccurs="0" name="_Cookies" nillable="true"
          xmlns:q9="http://schemas.datacontract.org/2004/07/System.Net" type="q9:CookieCollection"/>
        <xs:element minOccurs="0" name="_ErrorPageUrl" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**\_Cookies:** The **\_Cookies** element contains a collection of cookies. MUST be a **CookieCollection** data type as specified in section [2.2.4.17](#).

**\_ErrorPageUrl:** The **\_ErrorPageUrl** element contains the URL of the page to go to when errors occur during authentication.

#### 2.2.4.17 CookieCollection

**Namespace:** http://schemas.datacontract.org/2004/07/System.Net

The **CookieCollection** complex type is a collection container for instances of cookie.

```
<xs:complexType name="CookieCollection">
  <xs:sequence>
    <xs:element minOccurs="0" name="m_IsReadOnly" type="xs:boolean"/>
    <xs:element name="m_TimeStamp" type="xs:dateTime"/>
    <xs:element name="m_has_other_versions" type="xs:boolean"/>
    <xs:element name="m_list" nillable="true"
      xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      type="q1:ArrayOfanyType"/>
    <xs:element name="m_version" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**m\_IsReadOnly:** Specifies if the **CookieCollection** instance is read only. A value of **true** indicates that the element is read-only; otherwise, **false**.

**m\_TimeStamp:** Specifies the time, in **Coordinated Universal Time (UTC)**, when **CookieCollection** was issued.

**m\_has\_other\_versions:** Specifies if the **CookieCollection** has any cookie with different version than specified in **m\_version**.

**m\_list:** Specifies an array of cookies. MUST be an **ArrayOfanyType** data type as specified in section [2.2.4.2](#).

**m\_version:** Specifies the version of HTTP state management to which the **CookieCollection** corresponds to. MUST conform to [\[RFC2965\]](#).

### 2.2.4.18 DisplayGroupInfo

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **DisplayGroupInfo** complex type contains information about a search scope display group.

```
<xs:complexType name="DisplayGroupInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConsumerName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DefaultScopeID" type="xs:int"/>
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DisplayInAdminUI" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean"/>
    <xs:element minOccurs="0" name="IsUndeletable" type="xs:boolean"/>
    <xs:element minOccurs="0" name="LastModifiedBy" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="LastModifiedTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SiteUrl" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**ConsumerName:** Specifies the name of the site collection that is defined as **search scope consumer**. It MUST be present and its length MUST be greater than 0 and less than or equal to 60. It MUST NOT be NULL.

**DefaultScopeID:** Default search scope ID for this search scope display group. The protocol server MUST set it to 0 if the search scope display group is deleted.

**Description:** description of the search scope display group. It MUST be present and its length MUST be less than or equal to 60. It MAY be NULL.

**DisplayInAdminUI:** True if this search scope display group is shown in admin UI; otherwise, false.

**Id:** Identifier of the search scope display group. MUST be greater than or equal to 0.

**IsDeleted:** True if this search scope display group is deleted; otherwise false.

**IsUndeletable:** Boolean, true if this search scope display group cannot be deleted; otherwise false.



**LastModifiedBy:** The name of user who last modified this search scope display group. It MUST be present and its length MUST be less than or equal to 60.

**LastModifiedTime:** The last time, in UTC format, when the search scope display group was modified.

**Name:** The name of the search scope display group. It MUST be present and its length MUST be greater than 0 and less than or equal to 60. It MUST NOT be NULL.

**SiteUrl:** The site URL of the search scope consumer for the search scope display group.

#### 2.2.4.19 FormsAuthCredentials

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **FormsAuthCredentials** complex type contains form based authentication information.

```
<xs:complexType name="FormsAuthCredentials">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SecurableAuthData">
      <xs:sequence>
        <xs:element minOccurs="0" name="_AuthSchemeName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="_AuthSubmissionMethod" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="_AuthSubmissionPath" nillable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="_ErrorPageUrl" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

**\_AuthSchemeName:** The **\_AuthSchemeName** element contains the scheme name of the address to which the form based authentication MUST be submitted. The default value is "FormsAuth".

**\_AuthSubmissionMethod:** The **\_AuthSubmissionMethod** element contains the method by which the form-based authentication MUST be submitted. If present, it MUST be either "GET" or "POST". The default value is "GET".

**\_AuthSubmissionPath:** The **\_AuthSubmissionPath** element contains the **path**, as defined in [\[RFC1738\]](#), to which the form based authentication MUST be submitted.

**\_ErrorPageUrl:** The **\_ErrorPageUrl** element contains the URL of the page to go to when errors occur during authentication.

#### 2.2.4.20 Keyword

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **Keyword** complex type contains information about a keyword.

```
<xs:complexType name="Keyword">
  <xs:sequence>
    <xs:element minOccurs="0" name="contact" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

```

<xs:element minOccurs="0" name="definition" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="endDate" type="xs:dateTime"/>
<xs:element minOccurs="0" name="id" type="xs:int"/>
<xs:element minOccurs="0" name="reviewDate" type="xs:dateTime"/>
<xs:element minOccurs="0" name="startDate" type="xs:dateTime"/>
<xs:element minOccurs="0" name="term" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

**contact:** Specifies the contact **user name** for the keyword. This value **MUST** be a string with length not more than 50 characters or it **MUST** be NULL.

**definition:** The definition of the keyword, which is shown in search results. This value **MAY** not be present, otherwise it **MUST** be a string with length not more than 500 characters.

**endDate:** Specifies the date and time, in UTC format, as defined in [\[RFC3339\]](#), when the keyword stops appearing in search results. This value **MAY** not be present, in which case the keyword never stops appearing on search results.

**id:** Specifies the unique identifier of the keyword. When the Keyword object represents a keyword defined in the protocol server, this value **MUST** be present and **MUST** be non-negative.

**reviewDate:** The date and time, in UTC format, as defined in [\[RFC3339\]](#), when the keyword is expected to be reviewed. This value **MAY** not be present, in which case there's no expected review date for the keyword.

**startDate:** The date and time, in UTC format, as defined in [\[RFC3339\]](#), when the keyword begins to appear in search results. This value **MUST** be present.

**term:** The search term for this keyword. This value **MUST** be present and **MUST** be a **string** with length greater than 0 and not more than 100 characters.

## 2.2.4.21 LocationConfiguration

### Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **LocationConfiguration** complex type contains information about the configuration properties of a federated location.

```

<xs:complexType name="LocationConfiguration">
  <xs:sequence>
    <xs:element minOccurs="0" name="AdminDescription" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="AllowedSiteCollectionGuids" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q1:ArrayOfguid"/>
    <xs:element minOccurs="0" name="AllowedSiteCollectionUrls" nillable="true"
xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q2:ArrayOfanyType"/>
    <xs:element minOccurs="0" name="AuthInfo" nillable="true"
type="tns:AuthenticationInformation"/>
    <xs:element minOccurs="0" name="Author" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ConnectionUrlTemplate" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="CreationDate" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="DescriptionXml" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FullVisualization" nillable="true"
type="tns:Visualization"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element minOccurs="0" name="InternalName" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="IsDeletable" type="xs:boolean"/>
<xs:element minOccurs="0" name="IsPrefixPattern" type="xs:boolean"/>
<xs:element minOccurs="0" name="IsRestrictedLocation" type="xs:boolean"/>
<xs:element minOccurs="0" name="KindsOfResults" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="Languages" nillable="true"
xmlns:q3="http://schemas.datacontract.org/2004/07/System.Globalization"
type="q3:ArrayOfCultureInfo"/>
<xs:element minOccurs="0" name="LastModifiedDate" type="xs:dateTime"/>
<xs:element minOccurs="0" name="MoreLinkTemplate" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="QueryReformatPattern" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="QueryRestriction" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="SummaryVisualization" nillable="true"
type="tns:Visualization"/>
<xs:element minOccurs="0" name="TopAnswerVisualization" nillable="true"
type="tns:Visualization"/>
<xs:element minOccurs="0" name="Type" type="tns:LocationType"/>
<xs:element minOccurs="0" name="Version" nillable="true"
xmlns:q4="http://schemas.datacontract.org/2004/07/System" type="q4:Version"/>
<xs:element minOccurs="0" name="Visualizations" nillable="true"
xmlns:q5="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q5:ArrayOfKeyValueOfstringVisualizationy6h3NzC8"/>
<xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

**AdminDescription:** The description of the federated location. The length of the string MUST be less than or equal to 256 characters. This is optional.

**AllowedSiteCollectionGuids:** An array of unique site collection identifiers that are permitted to use this federated location. MUST be an **ArrayOfguid** data type, as specified in section [2.2.4.4](#).

**AllowedSiteCollectionUrls:** An array of site URLs that are permitted to use this federated location. MUST be an **ArrayOfanyType** data type, as specified in section [2.2.4.2](#).

**AuthInfo:** The authentication credential data. MUST be an **AuthenticationInformation** data type, as specified in section [2.2.4.14](#).

**Author:** The author of this federated location. The length of the **string** MUST be less than or equal to 60 characters. This is optional.

**ConnectionUrlTemplate:** The [\[OpenSearch1.1-Draft3\]](#) location's URL for the search results. It MAY optionally contain variable names to be replaced by values at query time. The variable names MUST be enclosed in curly braces, such as {VARIABLE\_NAME}. The possible variable names are the captured groups present in the regular expression in the **QueryReformatPattern** element plus the built-in variable **{searchTerms}** that refers to the **query text** in its entirety and **{zeroBasedStartIndex}** to indicate that the start index of the results from the OpenSearch server starts at zero. The length of the template MUST be less than or equal to 2048 characters or it MUST be NULL.

**CreationDate:** The creation date and time of the federated location. The corresponding **UTC** value is stored.

**DescriptionXml:** The federated location configuration details. MUST be a **string** that contains **XML**. The XML is only parsed by the protocol client so that its schema is decided by the protocol client.

**FullVisualization:** The display visualization information of the federated location, which can be used to display the core search results. This visualization MUST also be a member of the **Visualizations** element of this type with the name "full". MUST be a **Visualization** data type, as specified in section [2.2.4.32](#).

**Id:** The unique identifier for this **LocationConfiguration**. This value MUST NOT be NULL.

**InternalName:** A unique name to identify the federated location. The length of the **string** MUST be greater than 0 and not more than 60 characters.

**IsDeletable:** This field MUST be ignored.

**IsPrefixPattern:** Specifies whether the value in the **QueryReformatPattern** element is for a prefix match. If this is "true", the pattern MUST be matched as a prefix. Otherwise it is not a prefix match.

**IsRestrictedLocation:** Specifies whether there are any **restrictions (1)** on the sites that can use this federated location. If this is "true", the access to the federated location is restricted to permitted users. Otherwise, there are no restrictions (1).

**KindsOfResults:** Reserved. MUST be ignored on receipt.

**Languages:** Reserved. MUST be ignored on receipt.

**LastModifiedDate:** The date and time of the last modification by the search administration component. The corresponding UTC value is stored.

**MoreLinkTemplate:** The link template for the federated location URL of the **HTML** page that displays results for the search query. The length of the value MUST be less than or equal to 2048 characters. This is optional.

**Name:** The display name for the federated location. The length of the value MUST be greater than 0 and not more than 2048 characters.

**QueryReformatPattern:** A regular expression, as specified in [\[MC-RegEx\]](#), that a query MUST match to trigger a search on the federated location. This is only parsed by the protocol client. The length of the value MUST be less than or equal to 512 characters. This is optional.

**QueryRestriction:** The supplemental query text that MUST be appended to every query issued by the end user to this federated location. The length of this value MUST be less than or equal to 512 characters. This is optional.

**SummaryVisualization:** The display visualization information of the federated location, which can be used to display a brief summary of the search results. This visualization MUST also be present as an element of the **Visualizations** element of this complex type with the name "summary". MUST be a **Visualization** data type, as specified in section [2.2.4.32](#).

**TopAnswerVisualization:** The display visualization information of the federated location, which can be used to display top search results. This visualization MUST also be present as an element of the **Visualizations** element of this complex type with the name "topanswer". MUST be a **Visualization** data type, as specified in section [2.2.4.32](#).

**Type:** The type of federated location. MUST be a **LocationType** data type, as specified in section [2.2.5.7](#).

**Version:** The version of the federated location configuration information. MUST be a **Version** data type, as specified in section [2.2.4.31](#).

**Visualizations:** Pairs of visualization name and visualization information associated with the federated location. MUST be an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type, as specified in section [2.2.4.10](#).

**typeName:** The **strong name** for the runtime class. The interpretation of this value is determined by the value of **Type**. If **Type** is "LocationType.Custom", the protocol server MUST instantiate an object of the class given by **typeName** and use it as the runtime. Otherwise, this value MUST be ignored.

## 2.2.4.22 ManagedPropertyInfo

### Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ManagedPropertyInfo** complex type contains information about a managed property.

```
<xs:complexType name="ManagedPropertyInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="EnabledForScoping" type="xs:boolean"/>
    <xs:element minOccurs="0" name="ManagedType" type="tns:ManagedDataType"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Pid" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**EnabledForScoping:** Specifies whether the managed property can be used in a search scope. If the value is true, it can be used in a search scope, otherwise it cannot.

**ManagedType:** Specifies the type of the managed property. MUST be a **ManagedDataType** data type as specified in section [2.2.5.8](#).

**Name:** Specifies the name of the managed property. The length of the string MUST be greater than 0 and not more than 64 characters.

**Pid:** Specifies the unique identifier of a managed property. MUST be greater than zero.

## 2.2.4.23 RuleInfo

### Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **RuleInfo** complex type contains information about a search scope rule.

```
<xs:complexType name="RuleInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="FilterBehavior" type="tns:ScopeRuleFilterBehavior"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean"/>
    <xs:element minOccurs="0" name="ManagedProperty" nillable="true"
type="tns:ManagedPropertyInfo"/>
    <xs:element minOccurs="0" name="RuleType" type="tns:ScopeRuleType"/>
    <xs:element minOccurs="0" name="UrlRuleType" type="tns:UrlScopeRuleType"/>
    <xs:element minOccurs="0" name="UserValue" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**FilterBehavior:** The filter behavior of the search scope rule. The value MUST be of **ScopeRuleFilterBehavior** data type, as specified in section [2.2.5.11](#).

**Id:** The unique identifier of the search scope rule.

**IsDeleted:** Specifies whether the search scope rule is defined in the protocol server. A value of "true" indicates that the search scope rule is not defined on the protocol server. A value of "false" indicates that the search scope rule is defined in the protocol server.

**ManagedProperty:** The managed property to be used in the search scope rule. The value MUST be a **ManagedPropertyInfo** data type, as specified in section [2.2.4.22](#), if the **RuleType** element is set to "ScopeRuleType.PropertyQuery", as specified in section [2.2.5.12](#). The value MUST NOT be present if the **RuleType** element is set to a value other than "ScopeRuleType.PropertyQuery".

**RuleType:** The type of the search scope rule. The value MUST be a **ScopeRuleType** data type, as specified in section [2.2.5.12](#). If the **RuleType** is set to "ScopeRuleType.AllContent", elements other than **Id** and **IsDeleted** of **RuleInfo** MUST be ignored. If the **RuleType** value is set to "ScopeRuleType.Url", elements other than **Id**, **IsDeleted**, **FilterBehavior**, **UrlRuleType** and **UserValue** on **RuleInfo** MUST be ignored. If the **RuleType** value is set to "ScopeRuleType.PropertyQuery", elements other than **Id**, **IsDeleted**, **FilterBehavior**, **ManagedProperty** and **UserValue** of **RuleInfo** MUST be ignored.

**UrlRuleType:** The URL type of the search scope rule. The value MUST be a **UrlScopeRuleType** data type, as specified in section [2.2.5.15](#).

**UserValue:** The **search scope rule value** used by the search scope rule. The value MUST be less than or equal to 2048 characters in length.

## 2.2.4.24 ScopeInfo

### Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ScopeInfo** complex type contains information about a search scope.

```
<xs:complexType name="ScopeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="AlternateResultsPage" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="CompilationState" type="tns:ScopeCompilationState"/>
    <xs:element minOccurs="0" name="CompilationType" type="tns:ScopeCompilationType"/>
    <xs:element minOccurs="0" name="ConsumerName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DisplayInAdminUI" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Filter" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean"/>
    <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="LastModifiedBy" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="LastModifiedTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SiteUrl" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**AlternateResultsPage:** Specifies the URL of the alternate results page of the search scope. MUST NOT be present if an alternate results page URL is not specified for the search scope. The length of this string MUST be less than or equal to 2048.

**CompilationState:** Specifies the Compilation State of the search scope. MUST be a **ScopeCompilationState** data type as specified in section [2.2.5.9](#).

**CompilationType:** Specifies the Compilation Type of the search scope. MUST be a **ScopeCompilationType** data type as specified in section [2.2.5.10](#).

**ConsumerName:** Specifies the name of the site collection that is defined as consumer of the search scope. For a shared search scope this MUST be equal to **String.Empty**.

For a **local search scope** this MUST be equal to the name of the site collection that created the search scope. For a local search scope the length of this string MUST be greater than or equal to 1 and less than or equal to 60.

**Description:** Specifies the description of the search scope. The length of this string MUST be less than or equal to 300.

**DisplayInAdminUI:** Specifies whether the search scope is displayed in the Administration user interface. A value of "true" indicates that the search scope is displayed in the Administration user interface; a value of "false" indicates that the search scope is not displayed in the Administration user interface.

**Filter:** Reserved. MUST be ignored on receipt.

**Id:** Specifies the unique identifier of the search scope. MUST be positive.

**IsDeleted:** Specifies whether the search scope is defined in the protocol server. A value of "true" indicates that the search scope is not defined in the protocol server; a value of "false" indicates that the search scope is defined in the protocol server.

**LastCompilationTime:** Specifies the date and time, in Coordinated Universal Time (UTC) format, when the search scope was last compiled.

**LastModifiedBy:** Specifies the name of the user who last modified the search scope. The length of this string MUST be less than or equal to 60. MUST retain only the first 60 characters of the name if the name is longer than 60 characters.

**LastModifiedTime:** Specifies the date and time, in UTC format, when the search scope was last modified.

**Name:** Specifies the name of the search scope. The length of this string MUST be greater than or equal to 1 and less than or equal to 60.

**SiteUrl:** Specifies the URL of the consumer specified in **ConsumerName**. The length of this string MUST be less than or equal to 2048.

#### 2.2.4.25 ScopesManagerInfo

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ScopesManagerInfo** complex type represents the details of a search scopes system in a search application.



```

<xs:complexType name="ScopesManagerInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="AverageCompilationDuration" type="ser:duration"/>
    <xs:element minOccurs="0" name="CompilationPercentComplete" type="xs:short"/>
    <xs:element minOccurs="0" name="CompilationScheduleType"
type="tns:ScopesCompilationScheduleType"/>
    <xs:element minOccurs="0" name="CompilationStartTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="CompilationState" type="tns:ScopesCompilationState"/>
    <xs:element minOccurs="0" name="CustomCompilationSchedule" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="NextCompilationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="ScopesNeedingCompilation" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

```

**AverageCompilationDuration:** The value MUST be set to the average compilation time for search scopes managed by the search scopes system. The value MUST be of data type **duration** as specified in section [2.2.5.2](#).

**CompilationPercentComplete:** The value MUST be set to the percentage of compilation finished for the search scopes system. SHOULD be greater than or equal to 0 and not more than 100.

**CompilationScheduleType:** The **search scope compilation** schedule type for the search scopes system. The value MUST be a **ScopesCompilationScheduleType** data type as specified in section [2.2.5.13](#).

**CompilationStartTime:** The value MAY not be present, otherwise it MUST be set to the date and time, in UTC format, of the current compilation of the search scopes system.

**CompilationState:** The value MUST be set to the search scope compilation state of the search scopes system. The value MUST be a **ScopesCompilationState** data type as specified in section [2.2.5.14](#).

**CustomCompilationSchedule:** MUST be ignored.

**LastCompilationTime:** The value MAY not be present, otherwise it MUST be set to the date and time, in UTC format, of the last compilation of the search scopes system.

**NextCompilationTime:** The value MUST be set to the date and time, in UTC format, for the next compilation of the search scopes system.

**ScopesNeedingCompilation:** The value MUST be set to the number of search scopes needing compilation in the search scopes system. It MUST NOT be less than "0".

## 2.2.4.26 SecurableAuthData

### Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **SecurableAuthData** complex type contains the encrypted secure authentication information. It is extended by the **FormsAuthCredentials** complex type, as specified in section [2.2.4.19](#).

```

<xs:complexType name="SecurableAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">

```



```

    <xs:sequence>
      <xs:element minOccurs="0" name="SerializableSecurableNameValuePairs" nillable="true"
xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q6:ArrayOfKeyValueOfstringstring"/>
      <xs:element minOccurs="0" name="_NameValuePairs" nillable="true"
xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q7:ArrayOfKeyValueOfstringstring"/>
      <xs:element minOccurs="0" name="_SecurableNameValuePairs" nillable="true"
xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q8:ArrayOfKeyValueOfstringSecureStringX9wx7DhE"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

**SerializableSecurableNameValuePairs:** The **SerializableSecurableNameValuePairs** element contains name value pairs of serializable encrypted authentication information. MUST be an **ArrayOfKeyValueOfstringstring** data type as specified in section [2.2.4.9](#).

**\_NameValuePairs:** The **\_NameValuePairs** element contains the unencrypted name value pairs that don't have expected key values. MUST be an **ArrayOfKeyValueOfstringstring** data type as specified in section [2.2.4.9](#).

**\_SecurableNameValuePairs:** The **\_SecurableNameValuePairs** element contains the encrypted name value pairs that have expected key values. MUST be an **ArrayOfKeyValueOfstringSecureStringX9wx7DhE** data type as specified in section [2.2.4.8](#).

### 2.2.4.27 SecureString

**Namespace:** http://schemas.datacontract.org/2004/07/System.Security

The **SecureString** complex type is used for text that needs to be kept confidential.

```

<xs:complexType name="SecureString">
  <xs:sequence/>
</xs:complexType>

```

### 2.2.4.28 SsoAuthData

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **SsoAuthData** complex type contains the SSO authentication information.

```

<xs:complexType name="SsoAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element minOccurs="0" name="_SsoAppId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="_nameValuePairs" nillable="true"
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q10:ArrayOfKeyValueOfstringstring"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```
</xs:complexType>
```

**\_SsoAppId:** The **\_SsoAppId** element contains the unique identifier of the SSO application.

**\_nameValuePairs:** The **\_nameValuePairs** element contains the name value pairs for SSO authentication information. This is only interpreted by the protocol client, so the protocol client decides the specific key value pairs. MUST be an **ArrayOfKeyValueOfstringstring** data type as specified in section [2.2.4.9](#).

### 2.2.4.29 Synonym

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **Synonym** complex type contains information about a keyword synonym.

```
<xs:complexType name="Synonym">
  <xs:sequence>
    <xs:element minOccurs="0" name="term" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**term:** The search term for the keyword synonym. This value MUST be present and MUST be a **string** with length greater than 0 and not more than 100 characters.

### 2.2.4.30 UserPreferenceSerializeHelper

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **UserPreferenceSerializeHelper** complex type helps with serialization of the preferences associated with a user.

```
<xs:complexType name="UserPreferenceSerializeHelper">
  <xs:sequence>
    <xs:element minOccurs="0" name="CustomSettings" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="CustomString" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="QueryLanguages" nillable="true"
      xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q11:ArrayOfint"/>
    <xs:element minOccurs="0" name="Settings" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="Version" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**CustomSettings:** Specifies the custom settings for a user. MUST NOT be NULL. MUST be a non-negative integer. The protocol server MUST NOT interpret this value.

**CustomString:** Reserved. The protocol client and protocol server MUST ignore this value.

**QueryLanguages:** Specifies the list of query languages picked by the user. MUST be of **ArrayOfint** data type as specified in section [2.2.4.5](#). MUST be one of the following values in the Code column for the corresponding languages:

<b>Language</b>	<b>Code</b>
Arabic	0x0401
Bengali	0x0445
Bulgarian	0x0402
Catalan	0x0403
Chinese (Simplified)	0x0804
Chinese (Traditional)	0x0404
Croatian	0x041a
Czech	0x0405
Danish	0x0406
Dutch (Dutch)	0x0413
English (United States)	0x0409
Finnish	0x040b
French (Standard)	0x040c
German (Standard)	0x0407
Greek	0x0408
Gujarati	0x0447
Hebrew	0x040d
Hindi	0x0439
Hungarian	0x040e
Icelandic	0x040f
Indonesian	0x0421
Italian (Default)	0x0410
Japanese	0x0411
Kannada	0x044b
Korean	0x0412
Latvian	0x0426
Lithuanian	0x0427
Malay	0x043e
Malayalam	0x044c
Marathi	0x044e

Language	Code
Norwegian	0x0414
Polish	0x0415
Portuguese (Brazil)	0x0416
Portuguese (Portuguese)	0x0816
Punjabi	0x0446
Romanian	0x0418
Russian	0x0419
Serbian (Cyrillic)	0x0c1a
Serbian (Latin)	0x081a
Slovak	0x041b
Slovenian	0x0424
Spanish (Spain)	0x0c0a
Spanish (Mexico)	0x080a
Swedish	0x041d
Tamil	0x0449
Telugu	0x044a
Thai	0x041e
Turkish	0x041f
Ukrainian	0x0422
Urdu	0x0420
Vietnamese	0x042a

**Settings:** Specifies the settings for a user. MUST NOT be NULL. MUST be a non-negative integer. If the least significant bit is set to 1 then that means that the suggestions are shown before the search query.

**Version:** Specifies the current version of the user's preference. MUST NOT be NULL. MUST be a non-negative integer.

### 2.2.4.31 Version

**Namespace:** <http://schemas.datacontract.org/2004/07/System>

The **Version** complex type is used to store the version information about a system or application. Version information has four components represented by the four properties of the **Version** data type. The four components are represented using following format `major.minor[.build[.revision]]`.

```

<xs:complexType name="Version">
  <xs:sequence>
    <xs:element name="_Build" type="xs:int"/>
    <xs:element name="_Major" type="xs:int"/>
    <xs:element name="_Minor" type="xs:int"/>
    <xs:element name="_Revision" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

```

**\_Build:** Specifies the build component of version number. MUST be greater than or equal to 0. MUST be present if **\_Revision** is specified.

**\_Major:** Specifies the major component of the version number. MUST be greater than or equal to 0. MUST be present.

**\_Minor:** Specifies the minor component of version number. MUST be greater than or equal to 0. MUST be present.

**\_Revision:** Specifies the revision component of version number. MUST be greater than or equal to 0. Optional.

### 2.2.4.32 Visualization

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **Visualization** complex type contains information about the display format for the results from a federated location, including list of metadata to retrieve, sample results data for editing mode, and the XSL Transformation of the result XML. For convenience, each federated location MUST have three well known visualizations, each has a reserved name, including "full", "summary", and "topanswer". Besides these three types of visualization with reserved names, other custom visualizations can be added to a location using other unique names, as well.

```

<xs:complexType name="Visualization">
  <xs:sequence>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Properties" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SampleData" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Xsl" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**Name:** Specifies the name of the federated location. "full", "summary", and "topanswer" are reserved names for visualizations that are assigned to **LocationConfiguration.FullVisualization**, **LocationConfiguration.SummaryVisualization**, and **LocationConfiguration.TopAnswerVisualization** respectively (See section [2.2.4.21](#)). The length of the value MUST be no more than 60 characters and the protocol server MUST ignore the characters that exceed this limit. The value MUST be present.

**Properties:** Specifies the list of properties that MUST be retrieved from the federated location. The format of the string value MUST comply with the [\[XML\]](#) standard.

**SampleData:** Contains sample search results XML from the federated location. The format of the string value MUST comply with the [\[XML\]](#) standard.

**Xsl:** Specifies the XSL Transformation (**XSLT**) for the results [\[XML\]](#) returned for the federated location. The format of the string value **MUST** comply with the [\[XML\]](#) standard.

## 2.2.5 Simple Types

The following table summarizes the set of common XML Schema simple type definitions defined by this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

Simple Type	Description
BestBetFilter	The <b>BestBetFilter</b> simple type contains information about best bet filtering. This enumeration together with an associated string value form a best bet filter. This filter is used on web methods <a href="#">GetBestBetsInfo</a> and <a href="#">GetBestBetsCount</a> . Best bet definitions <b>MUST</b> be considered included in the filtered set if their title or Url matches the value string as directed by this enumeration's value. The matching is successful if the property being matched contains the value. If the <b>BestBetFilter</b> itself is null, the filtering <b>MUST</b> behave as if <b>BestBetFilter.None</b> was specified.
duration	The <b>duration</b> simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second.
FederationAuthType	The <b>FederationAuthType</b> simple type specifies the supported authentication protocols for connecting to federated locations.
guid	The guid simple type contains an identifier that is globally unique.
KeywordFilter	The <b>KeywordFilter</b> simple type enumeration, together with an associated string value, form a keyword filter. This filter is used on web methods <a href="#">GetSpecialTermsCount</a> and <a href="#">GetSpecialTermsInfo</a> . Keyword definitions <b>MUST</b> be considered included in the filtered set if the property specified by this enumeration's value matches the <b>value</b> string. The matching is successful if the property being matched contains the <b>value</b> .
KeywordView	The <b>KeywordView</b> simple type specifies a subset of a given set of keywords.
LocationType	The <b>LocationType</b> simple type specifies the type of a federated location.
ManagedDataType	The <b>ManagedDataType</b> simple type contains information about the data type of a managed property.
ScopeCompilationState	The <b>ScopeCompilationState</b> simple type contains information about the compilation state of a search scope.
ScopeCompilationType	The <b>ScopeCompilationType</b> simple type contains information about the compilation type of a search scope.
ScopeRuleFilterBehavior	The <b>ScopeRuleFilterBehavior</b> simple type contains information about the search scope rule filter behavior.
ScopeRuleType	The <b>ScopeRuleType</b> simple type contains information about the type of search scope rule.
ScopesCompilationScheduleType	The <b>ScopesCompilationScheduleType</b> simple type defines the types

Simple Type	Description
	of schedule for a search scope compilation for search scopes system.
ScopesCompilationState	The <b>ScopesCompilationState</b> simple type defines the search scopes compilation state values for a search scopes system.
UrlScopeRuleType	The <b>UrlScopeRuleType</b> simple type contains information about the URL matching behavior to use for the search scope rule.

### 2.2.5.1 BestBetFilter

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **BestBetFilter** simple type contains information about best bet filtering. This enumeration together with an associated string value form a best bet filter. This filter is used on web methods [GetBestBetsInfo](#) and [GetBestBetsCount](#). Best bet definitions MUST be considered included in the filtered set if their title or Url matches the value string as directed by this enumeration's value. The matching is successful if the property being matched contains the value. If the **BestBetFilter** itself is null, the filtering MUST behave as if **BestBetFilter.None** was specified.

```
<xs:simpleType name="BestBetFilter">
  <xs:restriction base="xs:string">
    <xs:enumeration value="BestBetTitle"/>
    <xs:enumeration value="BestBetUrl"/>
    <xs:enumeration value="Both"/>
    <xs:enumeration value="None"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for BestBetFilter:

Value	Meaning
BestBetTitle	Only the Title property is matched.
BestBetUrl	Only the Url property is matched.
Both	Both Title and URL are matched. Best bets that match either are included in the filtered set.
None	No matching Is done; all best bet definitions being filtered are included in the filtered set.

### 2.2.5.2 duration

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/

The **duration** simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second.

```
<xs:simpleType name="duration">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
  </xs:restriction>
</xs:simpleType>
```

```
</xs:simpleType>
```

### 2.2.5.3 FederationAuthType

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **FederationAuthType** simple type specifies the supported authentication protocols for connecting to federated locations.

```
<xs:simpleType name="FederationAuthType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Anonymous"/>
    <xs:enumeration value="LocalNTAuth"/>
    <xs:enumeration value="SingleAccountBasicAuth"/>
    <xs:enumeration value="SingleAccountFormsAuthentication"/>
    <xs:enumeration value="SingleAccountCookie"/>
    <xs:enumeration value="ApplicationPoolIdentity"/>
    <xs:enumeration value="Kerberos"/>
    <xs:enumeration value="PerUserFormsAuthentication"/>
    <xs:enumeration value="PerUserCookie"/>
    <xs:enumeration value="SSO"/>
    <xs:enumeration value="SingleAccountNTLM"/>
    <xs:enumeration value="PerUserNTLM"/>
    <xs:enumeration value="SingleAccountDigest"/>
    <xs:enumeration value="PerUserDigest"/>
    <xs:enumeration value="PerUserBasicAuth"/>
    <xs:enumeration value="Custom"/>
    <xs:enumeration value="PerUserCustom"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for FederationAuthType:

Value	Meaning
Anonymous	No credentials are used to connect to the federated location.
LocalNTAuth	Specifies Windows-based authentication.
SingleAccountBasicAuth	The Basic authentication credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
SingleAccountFormsAuthentication	The forms-based authentication credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
SingleAccountCookie	The cookie-based authentication credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
ApplicationPoolIdentity	The Windows credentials specified for the <b>search service application</b> pool are used to connect to the federated location.
Kerberos	<b>Kerberos</b> credentials are used to connect to the federated location.



Value	Meaning
PerUserFormsAuthentication	The forms-based authentication credentials of the user who submitted the search query are used to connect to the federated location.
PerUserCookie	The cookie-based authentication credentials of the user who submitted the search query are used to connect to the federated location.
SSO	The Single Sign-On (SSO) authentication credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
SingleAccountNTLM	The Windows credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
PerUserNTLM	The Windows credentials of the user who submitted the search query are used to connect to the federated location.
SingleAccountDigest	The digest authentication credentials configured for the location are used to connect to the federated location. The same set of credentials is used for each connection to the federated location.
PerUserDigest	The Digest authentication credentials of the user who submitted the search query are used to connect to the federated location.
PerUserBasicAuth	The Basic authentication credentials of the user who submitted the search query are used to connect to the federated location.
Custom	Reserved for future use. The protocol server MUST ignore this.
PerUserCustom	Reserved for future use. The protocol server MUST ignore this.

#### 2.2.5.4 guid

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/>

The guid simple type contains an identifier that is globally unique.

```
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="\da-fA-F}{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```

#### 2.2.5.5 KeywordFilter

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **KeywordFilter** simple type enumeration, together with an associated string value, form a keyword filter. This filter is used on web methods [GetSpecialTermsCount](#) and [GetSpecialTermsInfo](#). Keyword definitions MUST be considered included in the filtered set if the property specified by this

enumeration's value matches the **value** string. The matching is successful if the property being matched contains the **value**.

```
<xs:simpleType name="KeywordFilter">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Keyword"/>
    <xs:enumeration value="Synonyms"/>
    <xs:enumeration value="BestBetTitle"/>
    <xs:enumeration value="BestBetUrl"/>
    <xs:enumeration value="Contact"/>
    <xs:enumeration value="None"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for KeywordFilter:

Value	Meaning
Keyword	Match the keyword search term ( <b>Keyword.term</b> element, as specified in <a href="#">2.2.4.20</a> ).
Synonyms	Match any of the search terms of the keyword synonyms associated with the keyword. ( <b>Synonym.term</b> element, as specified in section <a href="#">2.2.4.29</a> )
BestBetTitle	Match the title of any best bet associated with the keyword ( <b>BestBet.title</b> element as specified in section <a href="#">2.2.4.15</a> ).
BestBetUrl	Match the URL of any best bet associated with the keyword ( <b>BestBet.url</b> element as specified in section <a href="#">2.2.4.15</a> ).
Contact	Matches the keyword's contact name ( <b>Keyword.contact</b> element, as specified in <a href="#">2.2.4.20</a> ).
None	No matching is done, all keywords being filtered are included in the filtered set.

### 2.2.5.6 KeywordView

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **KeywordView** simple type specifies a subset of a given set of keywords.

```
<xs:simpleType name="KeywordView">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllKeywords"/>
    <xs:enumeration value="ExpiredKeywords"/>
    <xs:enumeration value="ReviewKeywords"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for KeywordView:

Value	Meaning
AllKeywords	All keywords are included in the subset.
ExpiredKeywords	Only expired keywords are included in the subset. Keywords are expired when the current time and date is past the time and date in the <b>Keyword.endDate</b> element, as

Value	Meaning
	specified in <a href="#">2.2.4.20</a> .
ReviewKeywords	Only keywords pending review are included in the subset. Keywords are pending review when their <b>Keyword.reviewDate</b> element, as specified in <a href="#">2.2.4.20</a> , is past the current date.

### 2.2.5.7 LocationType

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **LocationType** simple type specifies the type of a federated location.

```
<xs:simpleType name="LocationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="LocalSharepoint"/>
    <xs:enumeration value="OpenSearch"/>
    <xs:enumeration value="FASTSearch"/>
    <xs:enumeration value="Custom"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for LocationType:

Value	Meaning
LocalSharepoint	Specifies the federated location type for local <b>sites (2)</b> . This is the default value.
OpenSearch	Specifies the federated location type for <a href="#">[OpenSearch1.1-Draft3]</a> .
FASTSearch	Specifies the federated location type for FAST search engine.
Custom	Specifies the federated location type for user custom search implementation.

### 2.2.5.8 ManagedDataType

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ManagedDataType** simple type contains information about the data type of a managed property.

```
<xs:simpleType name="ManagedDataType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Unsupported"/>
    <xs:enumeration value="Text"/>
    <xs:enumeration value="Integer"/>
    <xs:enumeration value="Decimal"/>
    <xs:enumeration value="DateTime"/>
    <xs:enumeration value="YesNo"/>
    <xs:enumeration value="Binary"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ManagedDataType:

Value	Meaning
Unsupported	Specifies that the managed property is an unsupported data type
Text	Specifies that the managed property is a <b>String</b> data type
Integer	Specifies that the managed property is a 64-bit integer
Decimal	Specifies that the managed property is a 64-bit decimal
DateTime	Specifies that the managed property is a <b>datetime</b> data type
YesNo	Specifies that the managed property is a <b>Boolean</b> data type
Binary	Specifies that the managed property contains binary data

### 2.2.5.9 ScopeCompilationState

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ScopeCompilationState** simple type contains information about the compilation state of a search scope.

```
<xs:simpleType name="ScopeCompilationState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Empty"/>
    <xs:enumeration value="Invalid"/>
    <xs:enumeration value="QueryExpanded"/>
    <xs:enumeration value="NeedsCompile"/>
    <xs:enumeration value="Compiled"/>
    <xs:enumeration value="NeedsRecompile"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ScopeCompilationState:

Value	Meaning
Empty	The search scope is empty and there <b>MUST</b> be no search scope rules defined for the search scope.
Invalid	The search scope is invalid and there <b>MUST</b> be no search scope rules that have included attributes for compilation.
QueryExpanded	The search scope is expanded at query time. The search scope <b>MUST</b> have more than or equal to 1 and less than or equal to 25 search scope rules. The <b>ScopeCompilationType</b> for the search scope <b>MUST</b> be set to <b>ConditionalCompile</b> .
NeedsCompile	The search scope needs to be compiled. The <b>ScopeCompilationType</b> for the search scope <b>MUST</b> be set to <b>AlwaysCompile</b> .
Compiled	The search scope is compiled.
NeedsRecompile	The search scope needs to be recompiled

## 2.2.5.10 ScopeCompilationType

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ScopeCompilationType** simple type contains information about the compilation type of a search scope.

```
<xs:simpleType name="ScopeCompilationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ConditionalCompile"/>
    <xs:enumeration value="AlwaysCompile"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ScopeCompilationType:

Value	Meaning
ConditionalCompile	The search scope MUST be compiled on demand
AlwaysCompile	The search scope MUST be always compiled

## 2.2.5.11 ScopeRuleFilterBehavior

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ScopeRuleFilterBehavior** simple type contains information about the search scope rule filter behavior.

```
<xs:simpleType name="ScopeRuleFilterBehavior">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Include"/>
    <xs:enumeration value="Require"/>
    <xs:enumeration value="Exclude"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ScopeRuleFilterBehavior:

Value	Meaning
Include	Items matching the search scope rule will be included in this search scope.
Require	Items that do not match this search scope rule are excluded from this search scope.
Exclude	Items matching the search scope rule will be excluded from this search scope.

## 2.2.5.12 ScopeRuleType

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ScopeRuleType** simple type contains information about the type of search scope rule.

```
<xs:simpleType name="ScopeRuleType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllContent"/>
    <xs:enumeration value="Url"/>
    <xs:enumeration value="PropertyQuery"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ScopeRuleType:

Value	Meaning
AllContent	The search scope rule includes all items.
Url	The search scope rule includes items whose <b>folder</b> , <b>host name</b> , or <b>subdomain</b> matches the search scope rule value.
PropertyQuery	The search scope rule includes items whose managed property value matches the search scope rule value.

### 2.2.5.13 ScopesCompilationScheduleType

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ScopesCompilationScheduleType** simple type defines the types of schedule for a search scope compilation for search scopes system.

```
<xs:simpleType name="ScopesCompilationScheduleType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Automatic"/>
    <xs:enumeration value="Custom"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for ScopesCompilationScheduleType:

Value	Meaning
None	Search scope compilation occurs only on demand.
Automatic	Search scope compilation occurs automatically on a periodic schedule.
Custom	MUST be ignored.

### 2.2.5.14 ScopesCompilationState

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ScopesCompilationState** simple type defines the search scopes compilation state values for a search scopes system.

```

<xs:simpleType name="ScopesCompilationState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Idle"/>
    <xs:enumeration value="Compiling"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for ScopesCompilationState:

Value	Meaning
Idle	This value indicates that the search scopes system is not currently compiling any search scopes.
Compiling	This value indicates that the search scopes system is currently compiling search scopes.

### 2.2.5.15 UrlScopeRuleType

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **UrlScopeRuleType** simple type contains information about the URL matching behavior to use for the search scope rule.

```

<xs:simpleType name="UrlScopeRuleType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Folder"/>
    <xs:enumeration value="HostName"/>
    <xs:enumeration value="Domain"/>
  </xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for UrlScopeRuleType:

Value	Meaning
Folder	The folder part of the item URL is matched against the search scope rule value.
HostName	The host name part of the item URL is matched against the search scope rule value.
Domain	The subdomain part of the item URL is matched against the search scope rule value.

### 2.2.6 Attributes

This specification does not define any common XML schema attribute definitions.

### 2.2.7 Groups

This specification does not define any common XML schema group definitions.

### 2.2.8 Attribute Groups

This specification does not define any common XML schema attribute group definitions.

## 2.2.9 Common Data Structures

This specification does not define any common XML schema data structures.



## 3 Protocol Details

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls that are made by the higher-layer protocol or application are passed directly to the transport, and the results that are returned by the transport are passed directly to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret Hypertext Transfer Protocol (HTTP) status codes that are returned by the protocol server as specified in [\[RFC2616\]](#), section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where otherwise specified, these SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

### 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.

##### 3.1.1.1 Object Hierarchy

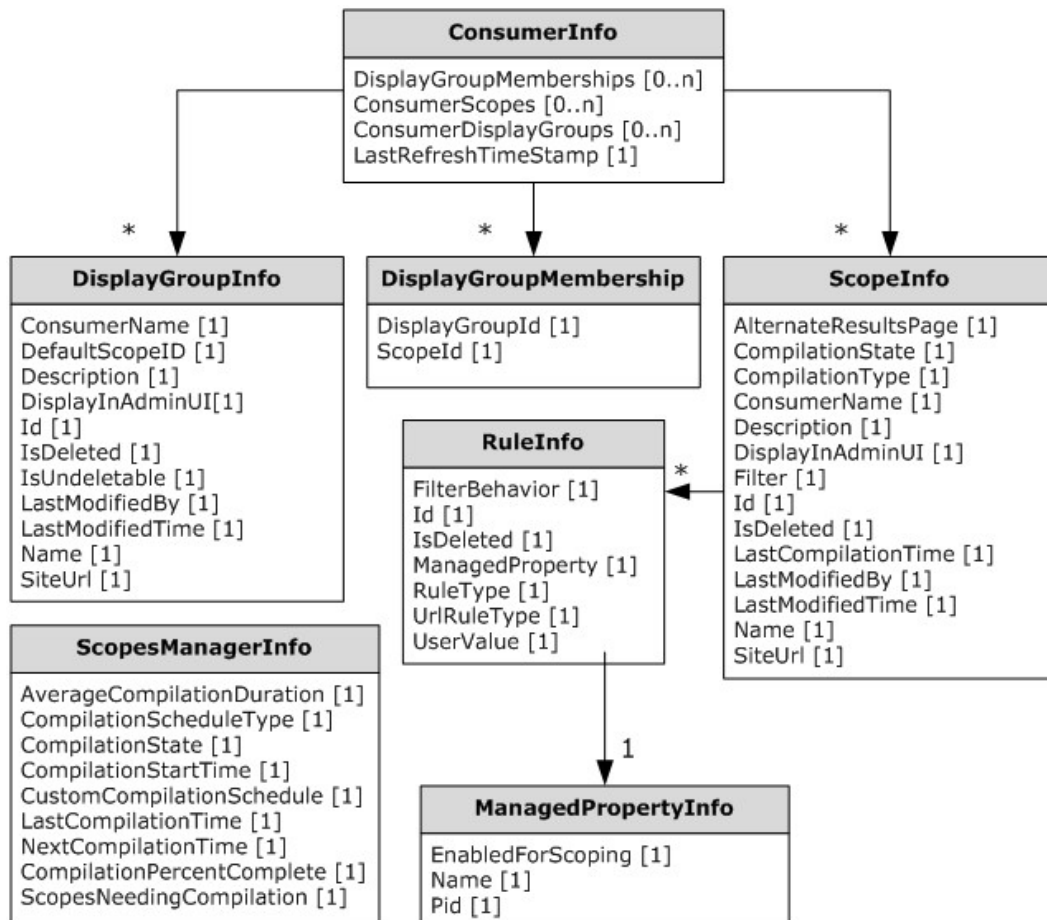
The protocol server maintains a hierarchy of data objects representing the state of this protocol. The objects are used by the protocol server to respond to the protocol client's request for information about Search Service Site Administration from the protocol server. The protocol server maintains objects representing:

- The list of search scopes.
- The list of keywords, best bets and keyword synonyms.
- The list of **federated location definitions**.

##### 3.1.1.2 Search Scopes

There are two kinds of search scopes: local and global. Local search scopes are those whose the search scope consumer is a site collection, whereas global search scopes are associated with the search service application and not to a particular site collection. For more details see [\[MS-SQLPADM\]](#) section 3.1.1.3.

The following diagram shows the hierarchy of objects maintained by the protocol server for search scopes. Properties followed by [0..n] are collections of items of the same kind, whereas those followed by [1] are single properties.



**Figure 2: Search Scope Info Abstract Data Model**

The protocol server uses these objects to respond to protocol client's request to add, update, remove and retrieve information about the search scopes, search scope display groups and search scope rules from the protocol server.

Search scope display groups are associated with a given site collection, and all calls to the protocol server regarding those have to specify the site collection.

**ConsumerInfo:** This is the top level object the protocol server maintains that represents information about search scope consumers, search scope display groups and search scopes. That object contains:

- **DisplayGroupMemberships:** The list of links between search scopes and search scope display groups.
- **ConsumerScopes:** The list of search scopes for the search scope consumer.

- **ConsumerDisplayGroups:** The list of search scope display groups for the search scope consumer.
- **LastRefreshTimeStamp:** The version of the set of search scope consumers in the protocol server. Whenever the protocol server makes a change to this object or any of its child objects on any level, it increments this value.

**DisplayGroupInfo:** The **ConsumerDisplayGroups** collection in the **ConsumerInfo** object contains a collection of zero or more **DisplayGroupInfo** objects. The **DisplayGroupInfo** object represents a search scope display group and holds the following information:

- **ConsumerName:** The identifier of the site collection that is defined as the search scope consumer of the search scope display group.
- **DefaultScopeID:** The identifier of the search scope that is defined as the default search scope for the search scope display group.
- **Description:** The description of the search scope display group.
- **DisplayInAdminUI:** If true, the search scope display group is displayed in the administration user interface. Otherwise, this search scope display group is not displayed in the administration user interface.
- **Id:** The identifier of the search scope display group.
- **IsDeleted:** If true, the search scope display group is deleted and not defined in the protocol server. Otherwise, the search scope display group is defined in the protocol server.
- **IsUndeletable:** If true, the search scope display group cannot be deleted from the protocol server. Otherwise, the search scope display group can be deleted.
- **LastModifiedBy:** The name of the user who last modified the search scope display group.
- **LastModifiedTime:** The date and time when the search scope display group was last modified.
- **Name:** The name of the search scope display group.
- **SiteUrl:** The URL of the consumer specified in **ConsumerName**.

**ScopeInfo:** The **ConsumerScopes** collection in the **ConsumerInfo** object contains a collection of zero or more **ScopeInfo** objects. The **ScopeInfo** object represents a search scope and holds the following information:

- **AlternateResultsPage:** The URL of the alternate results page of the search scope.
- **CompilationState:** The Compilation State of the search scope.
- **CompilationType:** The Compilation Type of the search scope.
- **ConsumerName:** The name of the site collection that is defined as a consumer of the search scope.
- **Description:** The description of the search scope.
- **DisplayInAdminUI:** If true, the search scope is displayed in the administration user interface. Otherwise, the search scope is not displayed in the administration user interface.
- **Filter:** Reserved.

- **Id:** The identifier of the search scope display group.
- **IsDeleted:** If true, the search scope is deleted and not defined in the protocol server. Otherwise, the search scope is defined in the protocol server.
- **LastCompilationTime:** The date and time, when the search scope was last compiled.
- **LastModifiedBy:** The name of the user who last modified the search scope.
- **LastModifiedTime:** The date and time when the search scope was last modified.
- **Name:** The name of the search scope.
- **SiteUrl:** The URL of the consumer specified in **ConsumerName**.

**DisplayGroupMembership:** The **DisplayGroupMemberships** collection in the **ConsumerInfo** object contains a collection of zero or more **DisplayGroupMembership** objects. The **DisplayGroupMembership** object represents a link between a search scope and a search scope display group. A search scope can belong to zero or more search scope display groups. The **DisplayGroupMembership** holds the following information:

- **DisplayGroupId:** The unique identifier of the display group.
- **ScopeId:** The unique identifier of the search scope which is part of the search scope display group specified in **DisplayGroupId**.

**RuleInfo:** This object represents information about a search scope rule. The **ScopeInfo** object contains information about 0 or more **RuleInfo** objects. Each **RuleInfo** object in a **ScopeInfo** object contains information about a search scope rule for the search scope specified in the **ScopeInfo** object. Each **RuleInfo** holds the following information:

- **FilterBehavior:** This identifies how the search scope rule will filter items.
- **Id:** The unique identifier of the search scope rule.
- **IsDeleted:** If true, the search scope rule is deleted and not defined in the protocol server. Otherwise, the search scope rule is defined in the protocol server.
- **ManagedProperty:** The property identifier, which is a reference to a managed property represented by a **ManagedPropertyInfo** object.
- **RuleType:** The type of search scope rule.
- **UriRuleType:** This specifies which part of the item URL is matched against the **UserValue** value.
- **UserValue:** The search scope rule value to use in the search scope rule.

**ManagedPropertyInfo:** This object represents a managed property. It holds the following information:

- **EnabledForScoping:** If true, the managed property can be used to define search scope rules. Otherwise, the managed property cannot be used to define search scope rules.
- **Name:** The name for the managed property.
- **Pid:** The unique identifier of the managed property.

**ScopesManagerInfo:** This is the top level object that represents information about the search scopes system in a search application. It holds following information:

- **AverageCompilationDuration:** The average compilation time for search scopes managed by the search scopes system.
- **CompilationPercentComplete:** The percentage of compilation finished for the search scopes system.
- **CompilationScheduleType:** The search scope compilation schedule type for the search scopes system.
- **CompilationStartTime:** The date and time of the current compilation of the search scopes system.
- **CompilationState:** The search scopes compilation state of the search scopes system.
- **CustomCompilationSchedule:** This value is reserved.
- **LastCompilationTime:** The date and time of the last compilation of the search scopes system.
- **NextCompilationTime:** The date and time for the next compilation of the search scopes system.
- **ScopesNeedingCompilation:** The number of scopes needing compilation in the search scopes system.

### 3.1.1.3 Keywords, Best Bets, and Keyword Synonyms

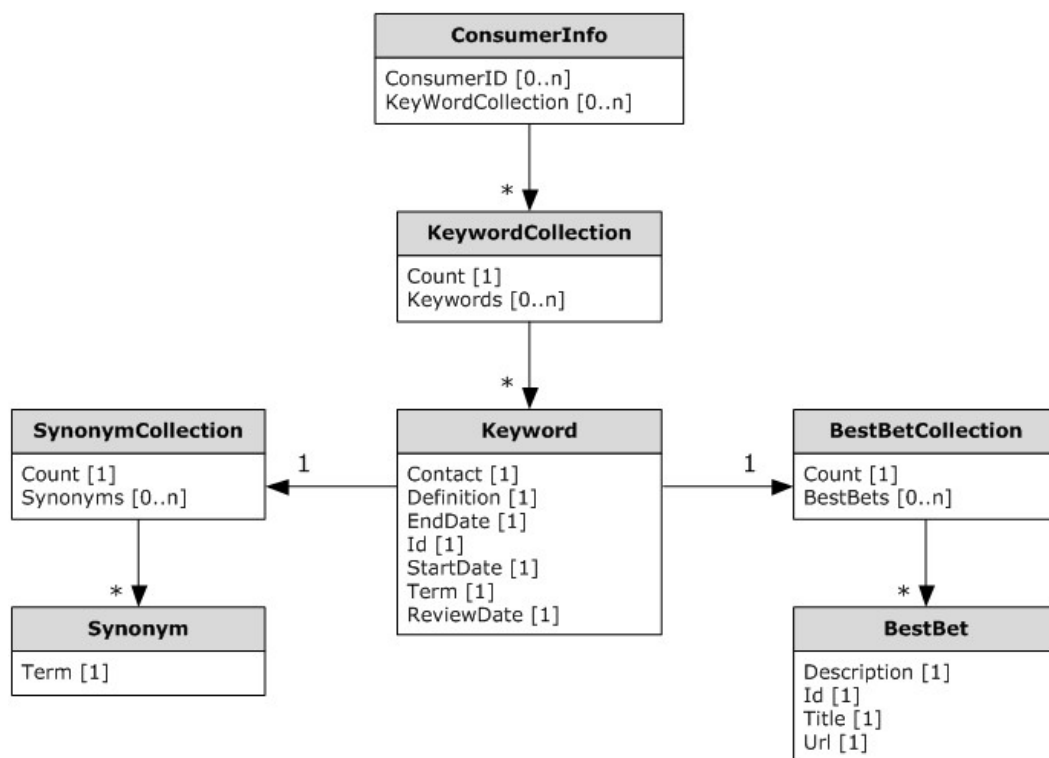
The following diagram shows the hierarchy of objects representing information about keywords, best bets, and keyword synonyms for a **keyword consumer**. There is one instance of **KeywordCollection** object per keyword consumer. The **KeywordCollection** object contains a collection of zero or more **Keyword** objects. Each **Keyword** object contains information about a keyword. In addition each **Keyword** object also contains information about all the best bets defined for the keyword and all the keyword synonyms defined for the keyword.

The protocol server uses these objects to respond to protocol client's request to add, update, remove and retrieve information about the keywords, best bets and keyword synonyms from the protocol server.

Each keyword is associated with a keyword consumer. The keyword consumer is the site collection in which the keyword was created.

In addition to creating keywords, the protocol client can also add, update, remove and retrieve information about best bets and keyword synonyms.

In addition to returning this information to the protocol client, the keywords, best bets and keyword synonyms defined for a keyword consumer are used when a user executes a query from a search results page that is part of the keyword consumer. For more details, see [\[MS-QSSWS\]](#).



**Figure 3: Keywords, Best Bets & Keyword Synonyms Abstract Data Model**

**ConsumerInfo:** This is the top level object that represents information about keyword consumers defined in the protocol server. The protocol server maintains one object of this type. It holds the following information:

- **ConsumerID:** The identifier of a keyword consumer. It is equal to the **GUID** of one of the site collections that is defined in the protocol server.
- **KeywordCollection:** List of **KeywordCollection** objects. There is one **KeywordCollection** object per keyword consumer.

**KeywordCollection:** This is the top level object that represents information about all the keywords, best bets and keyword synonyms defined for a keyword consumer. The **KeywordCollection** object contains a collection of zero or more **Keyword** objects. The **KeywordCollection** holds the following information:

- **Count:** The number of **Keyword** objects contained in this object.
- **Keywords:** The list of **Keyword** objects.

**Keyword:** Information about a keyword. This object also contains links to a **BestBetCollection** and **SynonymCollection** object, which contains information about all the best bets and keyword synonyms defined for the **Keyword** respectively. The **Keyword** object holds the following information:

- **Contact:** The name of the user defined as the contact for the keyword.
- **Definition:** The definition of the keyword, which is shown in search results.

- **EndDate:** The date and time when the keyword stops appearing in the search results.
- **Id:** The unique identifier of the keyword.
- **ReviewDate:** The date and time when the keyword is expected to be reviewed.
- **StartDate:** The date and time when the keyword begins to appear in search results.
- **Term:** The search term for this keyword, that is, the term users include in their searches in order to see the keyword information in search results.

**BestBetCollection:** The **BestBetCollection** object contains a collection of 0 or more **BestBet** objects. Each **BestBetCollection** object is linked to a **Keyword** object and contains information about all the best bets defined for that keyword. The order of the **BestBet** objects in the collection is the same as the order they appear on search results for that keyword. The **BestBetCollection** object holds the following information:

- **Count:** This is the number of **BestBet** objects contained in this object.
- **BestBets:** The list of **BestBet** objects.

**BestBet:** This object contains information about a best bet. The **BestBet** object holds the following information:

- **Description:** The description of the best bet.
- **Id:** The unique identifier of the best bet.
- **Title:** The title of the best bet.
- **Url:** The URL of the best bet.

**SynonymCollection:** The **SynonymCollection** object contains a collection of 0 or more **Synonym** objects. Each **SynonymCollection** object is linked to a **Keyword** object and contains information about all the keyword synonyms defined for the keyword. The **SynonymCollection** object holds the following information:

- **Count:** This is the number of **Synonym** objects contained in this object.
- **Synonyms:** The list of **Synonym** objects.

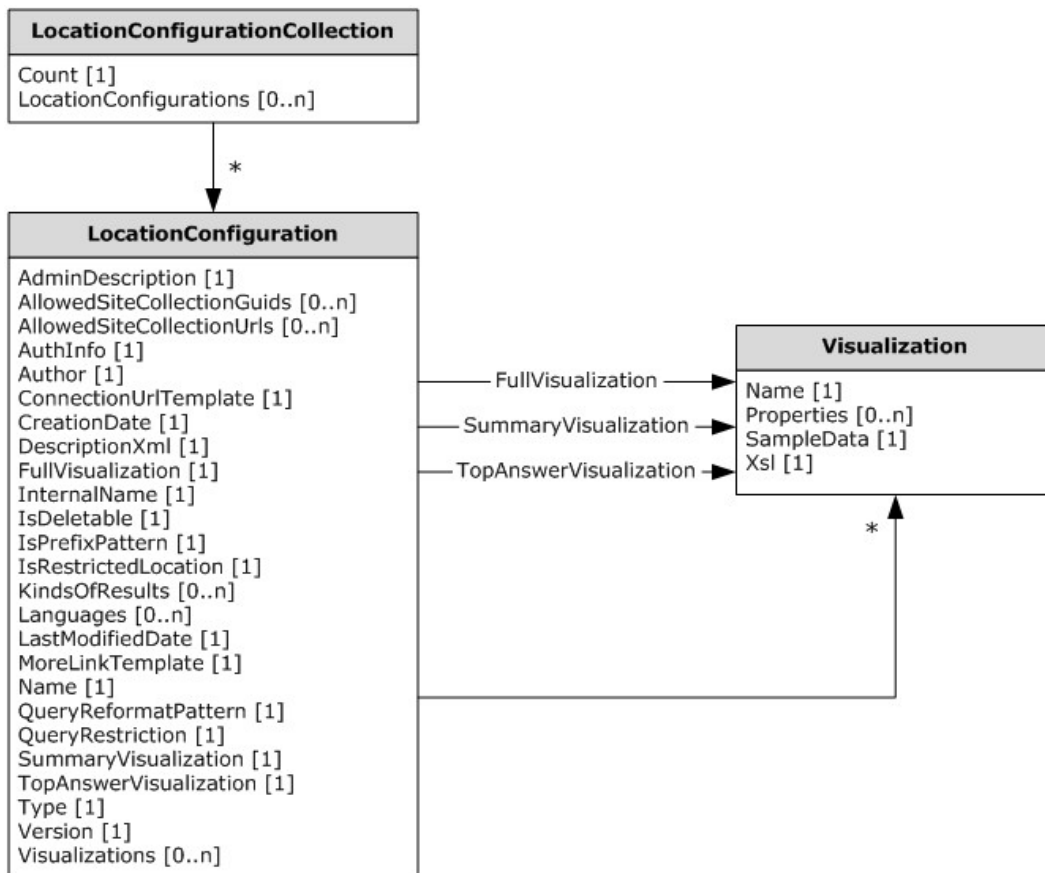
**Synonym:** This object contains information about a keyword synonym. The **Synonym** object holds the following information:

- **Term:** The search term that is used as a synonym of the keyword, that is, the term users include in their searches to see the information about the keyword linked to this synonym in search results.

### 3.1.1.4 Federated Location Definitions

The following diagram shows the hierarchy of objects representing information about a federated search location.

The federated search location information defined is used when a user executes a query from a search results page to direct the search to a federated location.



**Figure 4: Federated Search Abstract Data Model**

**LocationConfigurationCollection:** The **LocationConfigurationCollection** object contains a collection of 0 or more **LocationConfiguration** objects. It holds the following information:

- **Count:** This is the number of **LocationConfiguration** objects contained in this object.
- **LocationConfiguration:** The list of **LocationConfiguration** objects.

**LocationConfiguration:** This object contains information about configuration properties of a federated search location, including general information, location connection information, display information, and security information. It holds the following information:

- **AdminDescription:** The description of the federated search location.
- **AllowedSiteCollectionGuids:** A list of unique identifiers of the sites that are permitted to use this federated search location.
- **AllowedSiteCollectionUrls:** A list of URLs of the sites that are permitted to use this federated search location.
- **AuthInfo:** The authentication credential data.
- **Author:** The author of this federated search location.



- **ConnectionUrlTemplate:** The [\[OpenSearch1.1-Draft3\]](#) location's URL for the search results. It MAY contain variable names to be replaced by values at query time. The variable names MUST be enclosed in curly braces, such as {VARIABLE\_NAME}. The possible variable names are the captured groups present in the regular expression in the **QueryReformatPattern** element plus the built in variable {searchTerms} that refers to the query text in its entirety.
- **CreationDate:** The creation date of the federated search location.
- **DescriptionXml:** The XML description of the federated search location configuration details.
- **FullVisualization:** The display visualization information of the federated search location. It is a **Visualization** object with **Visualization.Name** equal to "full".
- **InternalName:** A unique name to identify the federated search location.
- **IsDeletable:** If true, the location can be deleted. Otherwise, the location cannot be deleted. This value is unchangeable be changed.
- **IsPrefixPattern:** If true, the value in the **QueryReformatPattern** attribute is for a prefix match. Otherwise it is not prefix match.
- **IsRestrictedLocation:** If true, there are restrictions (1) on the sites that can use this federated search location. Otherwise there are no restrictions (1).
- **KindsOfResults:** Reserved.
- **Languages:** A list of languages for the federated search location.
- **LastModifiedDate:** The date and time when the federated search location was last modified.
- **MoreLinkTemplate:** The link template that specifies the federated search location URL of the HTML page that displays results for the search query.
- **Name:** The display name for the federated search location.
- **QueryReformatPattern:** The regular expression pattern that a query matches to trigger a search on the federated search location.
- **QueryRestriction:** The supplemental query text is appended to every query issued by the end user to this federated search location.
- **SummaryVisualization:** The display visualization information of the federated search location. It is a **Visualization** object with **Visualization.Name** equal to "summary".
- **TopAnswerVisualization:** The display visualization information of the federated search location. It is a **Visualization** object with **Visualization.Name** equal to "topanswer".
- **Type:** The type of federated search location. It is be a **LocationType** data type as detailed in section [2.2.5.7](#).
- **Version:** The location definition version.
- **Visualizations:** A list of **Visualization** objects that contains visualizations associated with the federated search location.
- **typeName:** The strong name for the runtime class.

**Visualization:** This object contains information about the display format for the results from the federated search location, including list of metadata to retrieve, sample results data for editing mode, and the XSL transformation of the result XML. It contains the following information:

- **Name:** The name of the federated search location.
- **Properties:** The list of properties that are retrieved from the federated search location for each result.
- **SampleData:** The sample search results XML from the federated search location.
- **Xsl:** The XSL Transformation (XSLT) for the results XML returned for the federated search location.

### 3.1.2 Timers

None.

### 3.1.3 Initialization

None.

### 3.1.4 Message Processing Events and Sequencing Rules

This specification includes the following **WSDL operations**:

WSDL Operation	Description
AddBestBetLink	This operation is used by the protocol client to associate in the protocol server an existing best bet to a keyword. An existing best bet is one that is already defined in the protocol server.
AddConsumer	This operation is used by the protocol client to add a search scope consumer to the protocol server.
AddDisplayGroup	This operation is used by the protocol client to add a new search scope display group to the protocol server.
AddNewBestBet	This operation is used by the protocol client to associate a new best bet to a keyword for a given keyword consumer.
AddNewLocationConfiguration	This operation is used by the protocol client to add a new federated location to the search application.
AddRule	This operation is used by the protocol client to add a new search scope rule to an existing search scope in the search application.
AddScope	This operation is used by the protocol client to add a new search scope in the search application.
AddSpecialTerm	This operation is used by the protocol client to add a new keyword to a keyword consumer in the protocol server.
AddSynonym	This operation is used by the protocol client to create in the protocol server a new keyword synonym for the specified keyword.
DeleteConsumer	This operation is used by the protocol client to delete a search

WSDL Operation	Description
	scope consumer from the protocol server.
DeleteLocationConfiguration	This operation is used by the protocol client to delete a federated location from the search application.
DropDisplayGroup	This operation is used by the protocol client to delete a search scope display group from the protocol server.
DropRule	This operation is used by the protocol client to delete an existing search scope rule from the search application.
DropScope	This operation is used by the protocol client to delete a protocol server's search scope.
DropSpecialTerm	This operation is used by the protocol client to remove a keyword and its links with all the best bets associated with it.
DropSynonym	This operation is used by the protocol client to delete a keyword synonym for the specified keyword.
GetBestBet	This operation is used by the protocol client to retrieve a best bet for the specified keyword consumer from the protocol server.
GetBestBetForSpecialTerm	This operation is used by the protocol client to retrieve information from the protocol server about a best bet given the URL, keyword and the identifier of keyword consumer.
GetBestBetsCount	This operation is used by the protocol client to retrieve information from the protocol server about the count of best bets for a given keyword consumer.
GetBestBetsCountForSpecialTerm	This operation is used by the protocol client to retrieve the number of best bets defined in the protocol server for a given keyword.
GetBestBetsInfo	This operation is used by the protocol client to retrieve information from the protocol server about all best bets for a given keyword consumer.
GetBestBetsInfoForSpecialTerm	This operation is used by the protocol client to retrieve information from the protocol server about all best bets for a given keyword.
GetBestBetsOrderInfoForSpecialTerm	This operation is used by the protocol client to retrieve from the protocol server the identifiers of all best bets for a given keyword, in the order of that best bets are shown on the search results for the given keyword.
GetChangedConsumers	This operation is used by the protocol client to retrieve from the protocol server the names of all search scope consumers which have <b>search scopes</b> with timestamp higher than the given time stamp and the latest change timestamp at the protocol server to search scope consumers.
GetConsumerInformation	This operation is used by the protocol client to retrieve information from the protocol server about a search scope consumer.
GetConsumers	This operation is used by the protocol client to retrieve information about the consumers of the search scopes in the protocol server.

WSDL Operation	Description
GetContainingDisplayGroups	This operation is used by the protocol client to retrieve from the protocol server the list of identifiers of search scope display groups for a search scope.
GetContentSourceNames	This operation is used by the protocol client to retrieve the unique values for the managed property with <b>ManagedPropertyInfo.Name</b> equal to " <b>content source</b> " from the protocol server as specified in section <a href="#">2.2.4.22</a> .
GetDisplayGroupIDFromName	This operation is used by the protocol client to retrieve the identifier from the protocol server of a search scope display group given the search scope consumer's name and the search scope display group's name.
GetDisplayGroupInfo	This operation is used by the protocol client to retrieve information from the protocol server about a search scope display group given its identifier.
GetDisplayGroupListInfo	This operation is used by the protocol client to retrieve information from the protocol server about the list of identifiers of search scopes in a search scope display group in the order of rank, given the search scope display group's unique identifier. The rank is decided by <b>SetDisplayGroupListInfo</b> as specified in section <a href="#">3.1.4.75</a> .
GetDisplayGroupsCount	This operation is used by the protocol client to retrieve from the protocol server the count of all search scope display groups.
GetDisplayGroupsForConsumer	This operation is used by the protocol client to retrieve information from the protocol server about all search scope display groups for a search scope consumer.
GetDisplayGroupsInfo	This operation is used by the protocol client to retrieve information from the protocol server about all search scope display groups.
GetLastLocationConfigurationUpdate	This operation is used by the protocol client to retrieve the version information of the last update to the location configuration for the federated location.
GetLocationConfigurations	This operation is used by the protocol client to retrieve information about the configurations of all the federated locations available in the search application,
GetLocationDescription	This operation is used by the protocol client to retrieve the description XML of a federated location in the search application.
GetLocationVisualizations	This operation is used by the protocol client to retrieve all available display information for the federated location of the search application.
GetManagedProperties	This operation is used by the protocol client to retrieve the information of the managed properties.
GetPropertyQueryRuleCount	This operation is used by the protocol client to retrieve information about the number of documents matching a managed property restriction (1) in the protocol server.
GetProxyInfo	This operation is used by the protocol client to retrieve HTTP <b>proxy</b> server information.

<b>WSDL Operation</b>	<b>Description</b>
GetRuleInfo	This operation is used by the protocol client to retrieve information from the protocol server about a search scope rule given its identifier.
GetRulesCount	This operation is used by the protocol client to retrieve information about the number of search scope rules defined for a search scope in the protocol server.
GetRulesInfo	This operation is used by the protocol client to retrieve all the search scope rules defined for a search scope by the protocol server.
GetScopeIDFromName	This operation is used by the protocol client to retrieve the identifier for search scope when given the name of the search scope and the name of the search scope consumer that owns the search scope.
GetScopeInfo	This operation is used by the protocol client to retrieve information about a protocol server's search scope.
GetScopeRowCount	This operation is used by the protocol client to retrieve information about the number of documents that match a search scope in the protocol server.
GetScopesCount	This operation is used by the protocol client to retrieve the count of all search scopes defined in the search application.
GetScopesForConsumer	This operation is used by the protocol client to retrieve information about all the search scopes associated with a given search scope consumer.
GetScopesInfo	This operation is used by the protocol client to retrieve information about all the search scopes defined in the protocol server.
GetScopesManagerInfo	This operation is used by the protocol client to retrieve information about the search scopes system in the search application.
GetSearchAlertManagerInfo	This operation is used by the protocol client to retrieve information about the <b>search alert</b> system for the search service application.
GetSearchAlertNotificationFormat	This operation is used by the protocol client to retrieve the notification format of the search alert system for the search service application.
GetSearchApplicationDisplayName	This operation is used by the protocol client to retrieve the display name of the search service application.
GetSearchApplicationName	This operation is used by the protocol client to retrieve the name of the search service application.
GetSharepointLocationVisualizations	This operation is used by the protocol client to retrieve 3 typical visualizations for a federated location. These visualizations MUST be named "full", "summary", and "topanswer" respectively.
GetSpecialTerm	This operation is used by the protocol client to retrieve information from the protocol server about a keyword defined for a given keyword consumer and search term.
GetSpecialTermsCount	This operation is used by the protocol client to retrieve the count

WSDL Operation	Description
	of keywords for a given keyword consumer from the protocol server.
GetSpecialTermsCountForBestBet	This operation is used by the protocol client to retrieve the number of keywords associated with a given best bet from the protocol server.
GetSpecialTermsInfo	This operation is used by the protocol client to retrieve information from the protocol server about a set of keywords, which conform to a filter and a view, for a given keyword consumer.
GetSpecialTermsInfoForBestBet	This operation is used by the protocol client to retrieve from the protocol server all the keywords for a given best bet.
GetSynonym	This operation is used by the protocol client to determine if a keyword has a specified a keyword synonym in the protocol server.
GetSynonymsCountForSpecialTerm	This operation is used by the protocol client to retrieve the number of keyword synonyms associated with a keyword, from the protocol server.
GetSynonymsInfoSpecialTerm	This operation is used by the protocol client to retrieve information from the protocol server about all keyword synonyms for the given keyword.
GetUnusedScopesForConsumer	This operation is used by the protocol client to retrieve information about all search scopes for a search scope consumer that are not associated to a search scope display group.
GetUrlRuleCount	This operation is used by the protocol client to retrieve information about the number of items matching a URL.
GetUserPreferenceSerializeHelper	This operation is used by the protocol client to retrieve the preferences associated with the given user.
GetVisibleScopesCount	This operation is used by the protocol client to retrieve information about number of visible search scopes defined in the protocol server.
GetVolatileScopeInfo	This operation is used by the protocol client to retrieve compilation state and compilation time of a search scope defined in the protocol server.
GetVolatileScopesManagerInfo	This operation is used by the protocol client to retrieve information that is likely to change, as represented by <b>VolatileScopesManagerInfo</b> data type specified in section <a href="#">3.1.4.70.3.1</a> , for the search scopes system in the search application.
PutLocationVisualization	This operation is used by the protocol client to add a new visualization definition for a federated location in the search application.
RemoveBestBetLink	This operation is used by the protocol client to remove the link between a keyword and a best bet. If there is no other keyword linked to the best bet then the best bet is also removed.
SetBestBetInfo	This operation is used by the protocol client to update details of a

WSDL Operation	Description
	best bet defined in the protocol server.
setDisplayGroupInfo	This operation is used by the protocol client to update details of a search scope display group defined in the protocol server.
setDisplayGroupListInfo	This operation is used by the protocol client to update the memberships of the search scopes and the search scope display group, given the unique identifier of the search scope display group and the list of identifiers of the search scopes.
setRuleInfo	This operation is used by the protocol client to set the details of an existing search scope rule.
setScopeInfo	This operation is used by the protocol client to update details of a search scope defined in the protocol server.
setScopesManagerInfo	This operation is used by the protocol client to set the details of a search scopes system in the search application.
setSpecialTermInfo	This operation is used by the protocol client to update details of a keyword defined for a given keyword consumer in the protocol server.
setUserPreferenceSerializeHelper	This operation is used by the protocol client to associate a preference with a user.
startScopesCompilation	This operation is used by the protocol client to begin the search scope compilation in the protocol server.
updateBestBetsOrder	This operation is used by the protocol client to update the order in which best bets show on the search results for a specified keyword.
updateLocationConfiguration	This operation is used by the protocol client to update the configuration properties of the federated location in the search application.

### 3.1.4.1 AddBestBetLink

This operation is used by the protocol client to associate in the protocol server an existing best bet to a keyword. An existing best bet is one that is already defined in the protocol server.

```

<wsdl:operation name="AddBestBetLink">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLink"
    message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLinkResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLinkSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
    message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_AddBestBetLink\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_AddBestBetLink\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify that the **bestBet** and **parentSpecialTerm** elements be associated to each other by the protocol server.
- The protocol client MUST send in the **order** element order in which the best bet appears in the search results for the keyword. Best bets MUST be ordered according to **order** value ascending.
- On receipt, the protocol server MUST check whether the **order** element is equal to the order of a best bet already associated with the keyword. If it is, the protocol server MUST abort the operation and return a **FaultException<SearchServiceApplicationFault>** error message.
- On success, the protocol server MUST create the association between the best bet and the keyword, as specified.
- On error, the protocol server MUST return a **FaultException<SearchServiceApplicationFault>** error message.

### 3.1.4.1.1 Messages

The following **WSDL message** definitions are specific to this operation.

#### 3.1.4.1.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddBestBetLink\_InputMessage**

The request WSDL message for the **AddBestBetLink** WSDL operation.

The **SOAP action** value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLink
```

The **SOAP body** contains the **AddBestBetLink** element.

#### 3.1.4.1.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddBestBetLink\_OutputMessage**

The response WSDL message for the **AddBestBetLink** WSDL operation.

The SOAP body contains the **AddBestBetLinkResponse** element.

### 3.1.4.1.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.1.2.1 AddBestBetLink

The input data for the **AddBestBetLink** WSDL operation.

```
<xs:element name="AddBestBetLink">  
  <xs:complexType>
```



```

    <xs:sequence>
      <xs:element minOccurs="0" name="bestBet" nillable="true"
        xmlns:q36="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q36:BestBet"/>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
        xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q37:Keyword"/>
      <xs:element minOccurs="0" name="order" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**bestBet:** The best bet that will be associated to the keyword. MUST be of **BestBet** data type, as specified in section [2.2.4.15](#). This value MUST NOT be NULL.

**parentSpecialTerm:** The keyword to which the best bet will be associated to. MUST be of **Keyword** data type, as specified in section [2.2.4.20](#). This value MUST NOT be NULL.

**order:** The position in which the best bet will be shown in search results for the keyword. Best bets with larger order are shown after **best bets** with smaller order.

### 3.1.4.1.2.2 AddBestBetLinkResponse

The result data for the **AddBestBetLink** WSDL operation.

```

<xs:element name="AddBestBetLinkResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.1.3 Complex Types

None.

### 3.1.4.1.4 Simple Types

None.

### 3.1.4.1.5 Attributes

None.

### 3.1.4.1.6 Groups

None.

### 3.1.4.1.7 Attribute Groups

None.

## 3.1.4.2 AddConsumer

This operation is used by the protocol client to add a search scope consumer to the protocol server.

```

<wsdl:operation name="AddConsumer">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_AddConsumer_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddConsumer_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_AddConsumer\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_AddConsumer\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name that uniquely identifies the search scope consumer that is being added to the protocol server.
- The protocol server MUST create the search scope consumer according to the information passed from the protocol client, unless a search scope consumer with the same name already exists.
- On success, the protocol server MUST set **AddConsumerResult** to 0.
- If a search scope consumer already exists with the specified name, **AddConsumerResult** MUST be set to 1.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.2.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddConsumer\_InputMessage**

The request WSDL message for the **AddConsumer** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumer
```

The SOAP body contains the **AddConsumer** element.

#### 3.1.4.2.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddConsumer\_OutputMessage**

The response WSDL message for the **AddConsumer** WSDL operation.

The SOAP body contains the **AddConsumerResponse** element.

### 3.1.4.2.2 Elements

The following XML Schema element definitions are specific to this operation.

### 3.1.4.2.2.1 AddConsumer

The input data for the **AddConsumer** WSDL operation.

```
<xs:element name="AddConsumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The name that uniquely identifies the search scope consumer. This value **MUST NOT** be NULL and **MUST** be a string with length greater than 0 and not more than 60 characters.

### 3.1.4.2.2.2 AddConsumerResponse

The result data for the **AddConsumer** WSDL operation.

```
<xs:element name="AddConsumerResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddConsumerResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**AddConsumerResult:** The return code for the operation. This value **MUST NOT** be NULL and **MUST** be a value from the following table:

Value	Meaning
0	The operation was successful. The search scope consumer was created.
1	The search scope consumer already existed in the protocol server. Nothing was done.

### 3.1.4.2.3 Complex Types

None.

### 3.1.4.2.4 Simple Types

None.

### 3.1.4.2.5 Attributes

None.

### 3.1.4.2.6 Groups

None.

### 3.1.4.2.7 Attribute Groups

None.

### 3.1.4.3 AddDisplayGroup

This operation is used by the protocol client to add a new search scope display group to the protocol server.

```
<wsdl:operation name="AddDisplayGroup">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroup"
    message="tns:ISearchSiteAdministrationServiceApplication_AddDisplayGroup_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroupResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_AddDisplayGroup_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an

**ISearchSiteAdministrationServiceApplication\_AddDisplayGroup\_InputMessage** request message, as specified in section [3.1.4.3.1.1](#), and the protocol server responds with an **ISearchSiteAdministrationServiceApplication\_AddDisplayGroup\_OutputMessage** response message, as specified in section [3.1.4.3.1.2](#), as follows:

- The protocol client MUST specify the information for the search scope display group to be added by the protocol server.
- On receipt the protocol server checks if the caller has the right privileges to add a search scope display group in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- The protocol server MUST check if **displayGroupInfo** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- The protocol server then checks if a search scope display group whose consumer name is equal to **displayGroupInfo.ConsumerName** exists. If not, the protocol server MUST abort the transaction and return the response message with **AddDisplayGroupResult** equal to "-1" and **statusCode** equal to "1".
- The protocol server adds the search scope display group. If a processing error occurs in this process, the protocol server MUST return the response message with **AddDisplayGroupResult** equal to "-1". In this case, the **statusCode** MAY contain an implementation specific error code and MUST NOT be zero ("0") or "1".
- On success, the protocol server MUST return the response message with **AddDisplayGroupResult** equal to the unique identifier for the added search scope display group that is larger than or equal to zero and **statusCode** equal to zero. Also, the protocol server MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the search scope display group belongs to.
- For all other errors, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.3.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddDisplayGroup\_InputMessage**

The request WSDL message for the **AddDisplayGroup** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroup
```

The SOAP body contains the **AddDisplayGroup** element.

#### 3.1.4.3.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddDisplayGroup\_OutputMessage**

The response WSDL message for the **AddDisplayGroup** WSDL operation.

The SOAP body contains the **AddDisplayGroupResponse** element.

### 3.1.4.3.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.3.2.1 AddDisplayGroup

The input data for the **AddDisplayGroup** WSDL operation.

```
<xs:element name="AddDisplayGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupInfo" nillable="true"
xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q12:DisplayGroupInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**displayGroupInfo:** Specifies the information for the search scope display group to be added. MUST be a **DisplayGroupInfo** data type as specified in section [2.2.4.18](#). The protocol server MUST ignore the values of **Id**, **IsDeleted**, **LastModifiedBy**, **LastModifiedTime** and **SiteUrl** child elements. The protocol server MUST use the name of the currently logged on user calling this operation as the value of **LastModifiedBy** child element. MUST NOT be null.

#### 3.1.4.3.2.2 AddDisplayGroupResponse

The result data for the **AddDisplayGroup** WSDL operation.

```
<xs:element name="AddDisplayGroupResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddDisplayGroupResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="0" name="statusCode" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**AddDisplayGroupResult:** On error, contains -1. On success, contains the unique identifier of the search scope display group that was created, which MUST be greater than or equal to 0.

**statusCode:** An integer that MUST specify the status of the request. MUST be 0 for successful execution. MUST be nonzero value for unsuccessful execution. MUST be 1 if the search scope consumer does not exist for the input **displayGoupInfo.CustomerName**.

### 3.1.4.3.3 Complex Types

None.

### 3.1.4.3.4 Simple Types

None.

### 3.1.4.3.5 Attributes

None.

### 3.1.4.3.6 Groups

None.

### 3.1.4.3.7 Attribute Groups

None.

## 3.1.4.4 AddNewBestBet

This operation is used by the protocol client to associate a new best bet to a keyword for a given keyword consumer.

```

<wsdl:operation name="AddNewBestBet">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBet"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBetResp
onse" message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBetSear
chServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_SearchServiceApplicati
onFaultFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_AddNewBestBet\\_InputMessage](#) request message and the protocol server responds with an

[ISearchSiteAdministrationServiceApplication\\_AddNewBestBet\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the new **bestBet** and **specialTerm** elements corresponding to the new best bet and keyword to be associated to each other.
- The protocol client MUST send in the **order** element to specify the order in which the new best bet appears in the search results for the keyword. Smaller values mean higher ordering.
- The protocol client MUST send in the **consumerGpId** element corresponding to the unique identifier of the keyword consumer for which the new best bet and keyword will be associated to each other.
- On receipt, the protocol server MUST check if the new best bet is already defined in the protocol server for the given keyword consumer. If it is, the protocol server MUST abort the operation and return a **FaultException<SearchServiceApplicationFault>** error message, where **SearchServiceApplicationFault** is as specified in [\[MS-QSSWS\]](#) section 2.2.4.1.
- On success, the protocol server MUST save the new best bet and create an association between the newly created best bet and the given keyword. It MUST also create an association between the newly created best bet and the given keyword consumer.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.4.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddNewBestBet\_InputMessage**

The request WSDL message for the **AddNewBestBet** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBet
```

The SOAP body contains the **AddNewBestBet** element.

##### 3.1.4.4.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddNewBestBet\_OutputMessage**

The response WSDL message for the **AddNewBestBet** WSDL operation.

The SOAP body contains the **AddNewBestBetResponse** element.

#### 3.1.4.4.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.4.2.1 AddNewBestBet

The input data for the **AddNewBestBet** WSDL operation.

```

<xs:element name="AddNewBestBet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="bestBet" nillable="true"
xmlns:q33="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q33:BestBet"/>
      <xs:element minOccurs="0" name="specialTerm" nillable="true"
xmlns:q34="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q34:Keyword"/>
      <xs:element minOccurs="0" name="order" type="xs:int"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**bestBet:** The new best bet that will be associated to the keyword for the given keyword consumer. It MUST be of **BestBet** data type, as specified in section [2.2.4.15](#). This value MUST NOT be NULL. The protocol server MUST ignore the **id** element of the **bestBet** object.

**specialTerm:** The keyword, to which the new best bet will be associated to, for the given keyword consumer. It MUST be of **Keyword** data type, as specified in section [2.2.4.20](#). This value MUST NOT be NULL.

**order:** The position in which the best bet will be shown in search results for the keyword. Best bets with larger order are shown after **best bets** with smaller order.

**consumerGpId:** The GUID that identifies the keyword consumer for which the new best bet will be associated the given keyword. This value MUST NOT be NULL and its length MUST be less than or equal to 50 characters. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.4.2 AddNewBestBetResponse

The result data for the **AddNewBestBet** WSDL operation.

```

<xs:element name="AddNewBestBetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="bestBet" nillable="true"
xmlns:q35="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q35:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**bestBet:** The new best bet, as it was created. MUST be of **BestBet** data type, as specified in section [2.2.4.15](#). This value MUST NOT be NULL.

### 3.1.4.4.3 Complex Types

None.

### 3.1.4.4.4 Simple Types

None.



#### 3.1.4.4.5 Attributes

None.

#### 3.1.4.4.6 Groups

None.

#### 3.1.4.4.7 Attribute Groups

None.

### 3.1.4.5 AddNewLocationConfiguration

This operation is used by the protocol client to add a new federated location to the search application.

```
<wsdl:operation name="AddNewLocationConfiguration">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationCon
figuration"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_InputMes
sage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationCon
figurationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_OutputMes
sage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_AddNewLocationConfiguration\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_AddNewLocationConfiguration\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the new federated location configuration properties as a **LocationConfiguration** data type specified in section [2.2.4.21](#).
- On receipt, if there already exists a location with the same internal name, the protocol server MUST send a **FaultException<ExceptionDetail>** message without overriding the existing location with the new one.
- On success, the protocol server MUST add the new location and its configuration properties.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.5.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddNewLocationConfiguration\_Inp utMessage**

The request WSDL message for the **AddNewLocationConfiguration** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationConfiguration
```

The SOAP body contains the **AddNewLocationConfiguration** element.

### 3.1.4.5.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddNewLocationConfiguration\_OutputMessage**

The response WSDL message for the **AddNewLocationConfiguration** WSDL operation.

The SOAP body contains the **AddNewLocationConfigurationResponse** element.

### 3.1.4.5.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.5.2.1 AddNewLocationConfiguration

The input data for the **AddNewLocationConfiguration** WSDL operation.

```
<xs:element name="AddNewLocationConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="configuration" nillable="true"
        xmlns:q62="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q62:LocationConfiguration"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**configuration:** configuration properties of the new federated location to be added. MUST be **LocationConfiguration** data type, as specified in section [2.2.4.21](#).

#### 3.1.4.5.2.2 AddNewLocationConfigurationResponse

The result data for the **AddNewLocationConfiguration** WSDL operation.

```
<xs:element name="AddNewLocationConfigurationResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.5.3 Complex Types

None.

### 3.1.4.5.4 Simple Types

None.

### 3.1.4.5.5 Attributes

None.

### 3.1.4.5.6 Groups

None.

### 3.1.4.5.7 Attribute Groups

None.

### 3.1.4.6 AddRule

This operation is used by the protocol client to add a new search scope rule to an existing search scope in the search application.

```
<wsdl:operation name="AddRule">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRule"
message="tns:ISearchSiteAdministrationServiceApplication_AddRule_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRuleResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddRule_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an

**ISearchSiteAdministrationServiceApplication\_AddRule\_InputMessage** (section [3.1.4.6.1.1](#)) request message and the protocol server responds with an

**ISearchSiteAdministrationServiceApplication\_AddRule\_OutputMessage** (section [3.1.4.6.1.2](#)) response message, as follows:

- The protocol client MUST specify the unique identifier for the search scope to be updated and search scope rule information for the new rule to be added.
- On receipt, the protocol server checks whether the caller has the right privileges to add the search scope rule to the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- The protocol server MUST check if **ruleInfo** is NULL. If so, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server MUST ensure that **ruleInfo.FilterBehavior** is data type **ScopeRuleFilterBehavior**, as specified in section [2.2.5.11](#). If it is not the valid type, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server MUST ensure that if the **ruleInfo.RuleType** is **ScopeRuleType.Url**, **ruleInfo.UrlRuleType** MUST be data type **UriScopeRuleType**, as specified in section [2.2.5.15](#). If it is not the valid type, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server MUST check if the search scope exists that corresponds to **scopeId**, which was passed by the protocol client. If yes, the protocol server MUST create a search scope rule with the details specified in **ruleInfo** for the search scope identified by **scopeId** and return the **AddRuleResult**. It also MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the rule belongs. For more information, see section [3.1.1.2](#).

Otherwise, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.6.1.1 ISearchSiteAdministrationServiceApplication\_AddRule\_InputMessage

The request WSDL message for the **AddRule** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRule
```

The SOAP body contains the **AddRule** element.

#### 3.1.4.6.1.2

#### ISearchSiteAdministrationServiceApplication\_AddRule\_OutputMessage

The response WSDL message for the **AddRule** WSDL operation.

The SOAP body contains the **AddRuleResponse** element.

### 3.1.4.6.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.6.2.1 AddRule

The input data for the **AddRule** WSDL operation.

```
<xs:element name="AddRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ruleInfo" nillable="true"
        xmlns:q83="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q83:RuleInfo"/>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ruleInfo:** The search scope rule information that MUST be added. MUST be a **RuleInfo** data type as specified in section [2.2.4.23](#).

**scopeId:** Specifies a unique identifier of the search scope.

#### 3.1.4.6.2.2 AddRuleResponse

The result data for the **AddRule** WSDL operation.

```

<xs:element name="AddRuleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddRuleResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**AddRuleResult:** Specifies a unique identifier for the search scope rule. MUST be greater than 0.

### 3.1.4.6.3 Complex Types

None.

### 3.1.4.6.4 Simple Types

None.

### 3.1.4.6.5 Attributes

None.

### 3.1.4.6.6 Groups

None.

### 3.1.4.6.7 Attribute Groups

None.

### 3.1.4.7 AddScope

This operation is used by the protocol client to add a new search scope in the search application.

```

<wsdl:operation name="AddScope">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScope"
    message="tns:ISearchSiteAdministrationServiceApplication_AddScope_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScopeResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_AddScope_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication AddScope InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication AddScope OutputMessage](#) response message, as follows:

- The protocol client MUST specify the search scope information to create a new scope.
- On receipt the protocol server checks if the caller has the right privileges to add search scope in the protocol server. If not, the protocol server MUST return a **FaultException**<**ExceptionDetail**> error message.

- Protocol server MUST check if **scopeInfo** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Protocol server MUST check if **scopeInfo.ConsumerName** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server MUST check whether the **scopeInfo.CompilationType** is of **ScopeCompilationType** data type, as specified in section [2.2.5.10](#). If it is not of valid type, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST create the search scope with details specified in **scopeInfo** and MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer with name as specified by **scopeInfo.ConsumerName**. The protocol server MUST return a unique identifier for search scope in **AddScopeResult**. The protocol server MUST return **statusCode** as 0.
- On error, the protocol server MUST return **statusCode** with non zero value and **AddScopeResult** MUST be set to -1. **statusCode** MUST be set to 2627 if scope with the same name already exists. **statusCode** MUST be set to 1 if **scopeInfo.ConsumerName** is not found on protocol server. **AddScopeResult** MUST be set to -1.

### 3.1.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.7.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddScope\_InputMessage**

The request WSDL message for the **AddScope** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScope
```

The SOAP body contains the **AddScope** element.

#### 3.1.4.7.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddScope\_OutputMessage**

The response WSDL message for the **AddScope** WSDL operation.

The SOAP body contains the **AddScopeResponse** element.

### 3.1.4.7.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.7.2.1 AddScope

The input data for the **AddScope** WSDL operation.

```
<xs:element name="AddScope">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="scopeInfo" nillable="true"
xmlns:q77="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q77:ScopeInfo"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**scopeInfo:** Specifies the search scope information that **MUST** be updated. **MUST** be a **ScopeInfo** data type as specified in section [2.2.4.24](#). The protocol server **MUST** ignore the values of **CompilationState**, **IsDeleted**, **LastCompilationTime**, **LastModifiedBy**, **LastModifiedTime** and **SiteUrl** child elements. The protocol server **MUST** use the name of the currently logged on user calling this operation as the value of **LastModifiedBy** child element.

### 3.1.4.7.2.2 AddScopeResponse

The result data for the **AddScope** WSDL operation.

```

<xs:element name="AddScopeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddScopeResult" type="xs:int"/>
      <xs:element minOccurs="0" name="statusCode" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**AddScopeResult:** Specifies the unique identifier of the search scope that was created.

**statusCode:** An integer that **MUST** specify the status of the request. **MUST** be 0 for successful execution. **MUST** be non zero value for unsuccessful execution.

### 3.1.4.7.3 Complex Types

None.

### 3.1.4.7.4 Simple Types

None.

### 3.1.4.7.5 Attributes

None.

### 3.1.4.7.6 Groups

None.

### 3.1.4.7.7 Attribute Groups

None.

### 3.1.4.8 AddSpecialTerm

This operation is used by the protocol client to add a new keyword to a keyword consumer in the protocol server.

```
<wsdl:operation name="AddSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTermRes
ponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTermSea
rchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_SearchServiceApplicat
ionFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_AddSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_AddSpecialTerm\\_OuputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword to be added and the unique identifier of the keyword consumer to whom the new keyword will be added.
- On success, the protocol server MUST add to the specified keyword consumer a new keyword created according to the information passed in the **term** element.
- If the specified keyword already exists in the protocol server than it MUST abort the operation and return a **FaultException<SearchServiceApplicationFault>** error message
- The protocol server MUST place in the **term** element of the response message the information for the keyword as it was created. MUST be of **Keyword** data type as specified in section [2.2.4.20](#).
- On error, the protocol server MUST return a **FaultException<SearchServiceApplicationFault>** error message.

#### 3.1.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.8.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddSpecialTerm\_InputMessage**

The request WSDL message for the **AddSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTerm
```

The SOAP body contains the **AddSpecialTerm** element.



### 3.1.4.8.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddSpecialTerm\_OutputMessage**

The response WSDL message for the **AddSpecialTerm** WSDL operation.

The SOAP body contains the **AddSpecialTermResponse** element.

### 3.1.4.8.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.8.2.1 AddSpecialTerm

The input data for the **AddSpecialTerm** WSDL operation.

```
<xs:element name="AddSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true"
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q18:Keyword"/>
      <xs:element minOccurs="0" name="consumerGroupId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** The keyword to be created in the protocol server. MUST be of **Keyword** data type, as specified in section [2.2.4.20](#). This value MUST NOT be NULL.

**consumerGroupId:** The identifier of the keyword consumer to which the keyword will be added. This value MUST NOT be NULL and its length MUST be less than or equal to 50 characters. The syntax is specified in section [2.2.5.4](#).

#### 3.1.4.8.2.2 AddSpecialTermResponse

The result data for the **AddSpecialTerm** WSDL operation.

```
<xs:element name="AddSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true"
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q19:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** The keyword, as it was created. MUST be of **Keyword** data type, as specified in section [2.2.4.20](#). This value MUST NOT be NULL.

### 3.1.4.8.3 Complex Types

None.

#### 3.1.4.8.4 Simple Types

None.

#### 3.1.4.8.5 Attributes

None.

#### 3.1.4.8.6 Groups

None.

#### 3.1.4.8.7 Attribute Groups

None.

#### 3.1.4.9 AddSynonym

This operation is used by the protocol client to create in the protocol server a new keyword synonym for the specified keyword.

```
<wsdl:operation name="AddSynonym">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonym"
    message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonymResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonymSearchServiceApplicationFaultFault"
    name="SearchServiceApplicationFaultFault"
    message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an

**ISearchSiteAdministrationServiceApplication\_AddSynonym\_InputMessage** request message, as specified in section [3.1.4.9.1.1](#), and the protocol server responds with an **ISearchSiteAdministrationServiceApplication\_AddSynonym\_OutputMessage** response message, as specified in section [3.1.4.9.1.2](#), as follows:

- The protocol client MUST place in the **syn** element of the request message the new keyword synonym to be created.
- The protocol client MUST place in the **parentSpecialTerm** element of the request message the keyword to which the new keyword synonym will be added.
- The protocol server MUST add to the specified keyword the new keyword synonym passed in the **syn** element.
- If the protocol server cannot create the new keyword synonym because it already exists, it MUST abort this operation and return a **FaultException<SearchServiceApplicationFault>** error message.
- For all other errors, the protocol server MUST return a **FaultException<SearchServiceApplicationFault>** error message.

### 3.1.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.9.1.1

#### **ISearchSiteAdministrationServiceApplication\_AddSynonym\_InputMessage**

The request WSDL message for the **AddSynonym** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonym
```

The SOAP body contains the **AddSynonym** element.

#### 3.1.4.9.1.2

#### **ISearchSiteAdministrationServiceApplication\_AddSynonym\_OutputMessage**

The response WSDL message for the **AddSynonym** WSDL operation.

The SOAP body contains the **AddSynonymResponse** element.

### 3.1.4.9.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.9.2.1 AddSynonym

The input data for the **AddSynonym** WSDL operation.

```
<xs:element name="AddSynonym">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="syn" nillable="true"
        xmlns:q56="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q56:Synonym"/>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
        xmlns:q57="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q57:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**syn:** Specifies the new keyword synonym to be added to the keyword. MUST be a **Synonym** data type, as specified in section [2.2.4.29](#). This value MUST NOT be NULL.

**parentSpecialTerm:** Specifies the keyword to which the new keyword synonym will be added. MUST be a **Keyword** data type, as specified in section [2.2.4.20](#). This value MUST NOT be NULL.

#### 3.1.4.9.2.2 AddSynonymResponse

The result data for the **AddSynonym** WSDL operation.

```
<xs:element name="AddSynonymResponse">
```

```
<xs:complexType>
  <xs:sequence/>
</xs:complexType>
</xs:element>
```

### 3.1.4.9.3 Complex Types

None.

### 3.1.4.9.4 Simple Types

None.

### 3.1.4.9.5 Attributes

None.

### 3.1.4.9.6 Groups

None.

### 3.1.4.9.7 Attribute Groups

None.

### 3.1.4.10 DeleteConsumer

This operation is used by the protocol client to delete a search scope consumer from the protocol server.

```
<wsdl:operation name="DeleteConsumer">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteConsumer_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumerRes
ponse"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteConsumer_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_DeleteConsumer\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_DeleteConsumer\\_OutputMessage](#) response message, as follows:

- The protocol client MUST place in the **consumerName** element of the request message the name that uniquely identifies the search scope consumer that is being deleted from the server.
- The protocol server MUST delete the search scope consumer with the given name if one exists. If one does not, the protocol server MUST do nothing and return from the operation.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.10.1.1

#### **ISearchSiteAdministrationServiceApplication\_DeleteConsumer\_InputMessage**

The request WSDL message for the **DeleteConsumer** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumer
```

The SOAP body contains the **DeleteConsumer** element.

#### 3.1.4.10.1.2

#### **ISearchSiteAdministrationServiceApplication\_DeleteConsumer\_OutputMessage**

The response WSDL message for the **DeleteConsumer** WSDL operation.

The SOAP body contains the **DeleteConsumerResponse** element.

### 3.1.4.10.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.10.2.1 DeleteConsumer

The input data for the **DeleteConsumer** WSDL operation.

```
<xs:element name="DeleteConsumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The name that uniquely identifies the search scope consumer. This value MUST NOT be NULL.

#### 3.1.4.10.2.2 DeleteConsumerResponse

The result data for the **DeleteConsumer** WSDL operation.

```
<xs:element name="DeleteConsumerResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.10.3 Complex Types

None.

### 3.1.4.10.4 Simple Types

None.

### 3.1.4.10.5 Attributes

None.

### 3.1.4.10.6 Groups

None.

### 3.1.4.10.7 Attribute Groups

None.

### 3.1.4.11 DeleteLocationConfiguration

This operation is used by the protocol client to delete a federated location from the search application.

```
<wsdl:operation name="DeleteLocationConfiguration">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationCon
    figuration"
    message="tns:ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_InputMes
    sage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationCon
    figurationResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_OutputMe
    ssage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_DeleteLocationConfiguration\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_DeleteLocationConfiguration\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the federated location to be deleted.
- On success, the protocol server MUST delete the federated location with the given unique identifier and return true, otherwise it MUST return false.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.11.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.11.1.1

#### **ISearchSiteAdministrationServiceApplication\_DeleteLocationConfiguration\_Input Message**

The request WSDL message for the **DeleteLocationConfiguration** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationConfiguration
```

The SOAP body contains the **DeleteLocationConfiguration** element.

### 3.1.4.11.1.2

#### **ISearchSiteAdministrationServiceApplication\_DeleteLocationConfiguration\_Output Message**

The response WSDL message for the **DeleteLocationConfiguration** WSDL operation.

The SOAP body contains the **DeleteLocationConfigurationResponse** element.

### 3.1.4.11.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.11.2.1 DeleteLocationConfiguration

The input data for the **DeleteLocationConfiguration** WSDL operation.

```
<xs:element name="DeleteLocationConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**id:** Specifies the unique identifier of the federated location to be deleted.

#### 3.1.4.11.2.2 DeleteLocationConfigurationResponse

The result data for the **DeleteLocationConfiguration** WSDL operation.

```
<xs:element name="DeleteLocationConfigurationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="DeleteLocationConfigurationResult" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeleteLocationConfigurationResult:** The protocol server MUST return true, if the deletion of the federated location is successful, and MUST return false if not successful.

### 3.1.4.11.3 Complex Types

None.

### 3.1.4.11.4 Simple Types

None.

### 3.1.4.11.5 Attributes

None.

### 3.1.4.11.6 Groups

None.

### 3.1.4.11.7 Attribute Groups

None.

### 3.1.4.12 DropDisplayGroup

This operation is used by the protocol client to delete a search scope display group from the protocol server.

```
<wsdl:operation name="DropDisplayGroup">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroup"
message="tns:ISearchSiteAdministrationServiceApplication_DropDisplayGroup_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroupR
esponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropDisplayGroup_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication DropDisplayGroup InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication DropDisplayGroup OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope display group to be deleted.
- On receipt the protocol server checks if the protocol client has sufficient privileges to delete the search scope display group. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Then, the protocol server checks if the search scope display group with the specified identifier exists. If yes, the protocol server deletes the search scope display group and its links with any search scope associated with it. If not, the protocol server MUST return the empty response message.



- On success, the protocol server MUST return the empty response message. Also, the protocol server MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the search scope display group belongs to.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.12.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.12.1.1

#### **ISearchSiteAdministrationServiceApplication\_DropDisplayGroup\_InputMessage**

The request WSDL message for the **DropDisplayGroup** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroup
```

The SOAP body contains the **DropDisplayGroup** element.

#### 3.1.4.12.1.2

#### **ISearchSiteAdministrationServiceApplication\_DropDisplayGroup\_OutputMessage**

The response WSDL message for the **DropDisplayGroup** WSDL operation.

The SOAP body contains the **DropDisplayGroupResponse** element.

### 3.1.4.12.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.12.2.1 DropDisplayGroup

The input data for the **DropDisplayGroup** WSDL operation.

```
<xs:element name="DropDisplayGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**displayGroupId:** Specifies a unique identifier of the search scope display group to delete.

#### 3.1.4.12.2.2 DropDisplayGroupResponse

The result data for the **DropDisplayGroup** WSDL operation.

```
<xs:element name="DropDisplayGroupResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

### 3.1.4.12.3 Complex Types

None.

### 3.1.4.12.4 Simple Types

None.

### 3.1.4.12.5 Attributes

None.

### 3.1.4.12.6 Groups

None.

### 3.1.4.12.7 Attribute Groups

None.

### 3.1.4.13 DropRule

This operation is used by the protocol client to delete an existing search scope rule from the search application.

```
<wsdl:operation name="DropRule">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRule"
    message="tns:ISearchSiteAdministrationServiceApplication_DropRule_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRuleResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_DropRule_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication DropRule InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication DropRule OutputMessage](#) request message, as follows:

- The protocol client MUST specify the unique identifier for the search scope rule to be deleted.
- On receipt the protocol server checks if the caller has the right privileges to delete search scope rule in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST delete the search scope rule from the protocol server and MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the rule belongs to. For more information consult section [3.1.1.2](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.13.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.13.1.1

#### **ISearchSiteAdministrationServiceApplication\_DropRule\_InputMessage**

The request WSDL message for the **DropRule** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRule
```

The SOAP body contains the **DropRule** element.

#### 3.1.4.13.1.2

#### **ISearchSiteAdministrationServiceApplication\_DropRule\_OutputMessage**

The response WSDL message for the **DropRule** WSDL operation.

The SOAP body contains the **DropRuleResponse** element.

### 3.1.4.13.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.13.2.1 DropRule

The input data for the **DropRule** WSDL operation.

```
<xs:element name="DropRule">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ruleId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ruleId:** Specifies a unique identifier for the search scope rule.

#### 3.1.4.13.2.2 DropRuleResponse

The result data for the **DropRule** WSDL operation.

```
<xs:element name="DropRuleResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.13.3 Complex Types

None.

#### 3.1.4.13.4 Simple Types

None.

#### 3.1.4.13.5 Attributes

None.

#### 3.1.4.13.6 Groups

None.

#### 3.1.4.13.7 Attribute Groups

None.

#### 3.1.4.14 DropScope

This operation is used by the protocol client to delete a protocol server's search scope.

```
<wsdl:operation name="DropScope">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScope"
    message="tns:ISearchSiteAdministrationServiceApplication_DropScope_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScopeResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_DropScope_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_DropScope\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_DropScope\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope to be deleted.
- On receipt the protocol server checks if the search scope with the specified identifier exists and if protocol client has sufficient privileges to delete the search scope with the specified identifier.
- On success, the protocol server MUST do all of the following: delete the specified scope; increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the search scope belongs to; return the empty response message. For more information about **ConsumerInfo.LastRefreshTimeStamp** consult section [3.1.1.2](#).
- On error the protocol server MUST throw a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.14.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.14.1.1

#### **ISearchSiteAdministrationServiceApplication\_DropScope\_InputMessage**

The request WSDL message for the **DropScope** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScope
```

The SOAP body contains the **DropScope** element.

#### 3.1.4.14.1.2

### **ISearchSiteAdministrationServiceApplication\_DropScope\_OutputMessage**

The response WSDL message for the **DropScope** WSDL operation.

The SOAP body contains the **DropScopeResponse** element.

#### 3.1.4.14.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.14.2.1 DropScope

The input data for the **DropScope** WSDL operation.

```
<xs:element name="DropScope">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeId:** Unique Identifier of the search scope.

##### 3.1.4.14.2.2 DropScopeResponse

The result data for the **DropScope** WSDL operation.

```
<xs:element name="DropScopeResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.14.3 Complex Types

None.

#### 3.1.4.14.4 Simple Types

None.

#### 3.1.4.14.5 Attributes

None.

### 3.1.4.14.6 Groups

None.

### 3.1.4.14.7 Attribute Groups

None.

### 3.1.4.15 DropSpecialTerm

This operation is used by the protocol client to remove a keyword and its links with all the best bets associated with it.

```
<wsdl:operation name="DropSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_DropSpecialTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTermRe
sponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropSpecialTerm_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication DropSpecialTerm InputMessage](#) and the protocol server responds with an [ISearchSiteAdministrationServiceApplication DropSpecialTerm OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword which MUST be removed together with its best bets.
- On receipt, the protocol server MUST find and remove the keyword and its links with all the best bets associated with it.
- On success, the protocol server MUST return the empty response message.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.15.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.15.1.1

#### **ISearchSiteAdministrationServiceApplication\_DropSpecialTerm\_InputMessage**

The request WSDL message for the **DropSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTerm
```

The SOAP body contains the **DropSpecialTerm** element.

### 3.1.4.15.1.2

#### **ISearchSiteAdministrationServiceApplication\_DropSpecialTerm\_OutputMessage**

The response WSDL message for the **DropSpecialTerm** WSDL operation.

The SOAP body contains the **DropSpecialTermResponse** element.

### 3.1.4.15.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.15.2.1 DropSpecialTerm

The input data for the **DropSpecialTerm** WSDL operation.

```
<xs:element name="DropSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true"
        xmlns:q25="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q25:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** Specifies the keyword to remove. MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

#### 3.1.4.15.2.2 DropSpecialTermResponse

The result data for the **DropSpecialTerm** WSDL operation.

```
<xs:element name="DropSpecialTermResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.15.3 Complex Types

None.

### 3.1.4.15.4 Simple Types

None.

### 3.1.4.15.5 Attributes

None.

### 3.1.4.15.6 Groups

None.

### 3.1.4.15.7 Attribute Groups

None.

### 3.1.4.16 DropSynonym

This operation is used by the protocol client to delete a keyword synonym for the specified keyword.

```
<wsdl:operation name="DropSynonym">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonym"
    message="tns:ISearchSiteAdministrationServiceApplication_DropSynonym_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonymResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_DropSynonym_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_DropSynonym\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_DropSynonym\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword synonym to be deleted and the keyword which the keyword synonym is synonym of.
- On receipt the protocol server checks if the keyword synonym is a valid synonym for the keyword. If yes, the protocol server deletes the keyword synonym for the keyword. If not, the protocol server MUST abort the transaction and return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the empty response message.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.16.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.16.1.1

#### **ISearchSiteAdministrationServiceApplication\_DropSynonym\_InputMessage**

The request WSDL message for the **DropSynonym** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonym
```

The SOAP body contains the **DropSynonym** element.

##### 3.1.4.16.1.2

#### **ISearchSiteAdministrationServiceApplication\_DropSynonym\_OutputMessage**

The response WSDL message for the **DropSynonym** WSDL operation.



The SOAP body contains the **DropSynonymResponse** element.

### 3.1.4.16.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.16.2.1 DropSynonym

The input data for the **DropSynonym** WSDL operation.

```
<xs:element name="DropSynonym">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="syn" nillable="true"
        xmlns:q58="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q58:Synonym"/>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
        xmlns:q59="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q59:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**syn:** The keyword synonym to be deleted. MUST NOT be null. MUST be a **Synonym** data type as specified in section [2.2.4.29](#).

**parentSpecialTerm:** The keyword for which **syn** is a synonym. MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

#### 3.1.4.16.2.2 DropSynonymResponse

The result data for the **DropSynonym** WSDL operation.

```
<xs:element name="DropSynonymResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.16.3 Complex Types

None.

### 3.1.4.16.4 Simple Types

None.

### 3.1.4.16.5 Attributes

None.

### 3.1.4.16.6 Groups

None.

### 3.1.4.16.7 Attribute Groups

None.

### 3.1.4.17 GetBestBet

This operation is used by the protocol client to retrieve a best bet for the specified keyword consumer from the protocol server.

```
<wsdl:operation name="GetBestBet">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBet"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_OutputMessage"/>
  <wsdl:fault
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetSearchServiceApplicationFaultFault"
    name="SearchServiceApplicationFaultFault"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBet\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetBestBet\\_OutputMessage](#) response message, as follows:

- The protocol client MUST place in the following elements of the request message:
  - **consumerGpId**: the unique identifier of the keyword consumer that has the best bet.
  - **url**: the URL associated with the **best bet**, as detailed in section [3.1.1.3](#).
- On receipt, the protocol server uses the **consumerGpId** and the URL to find the best bet and returns information for the best bet in a **BestBet** data type as specified in section [2.2.4.6](#). The **url** element and the URL property of the best bet MUST be considered equivalent by this operation, if they differ only by the fragment part. The fragment part of a URL is all the follows the # character, as defined in [RFC3986](#).
- If the protocol server does not find a best bet definition in the specified keyword consumer with the given URL it MUST abort this operation and return an **FaultException<SearchServiceApplicationFault>** error message.
- On error processing the request the protocol server MUST return a **FaultException<SearchServiceApplicationFault>** error message.

#### 3.1.4.17.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.17.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBet\_InputMessage**

The request WSDL message for the **GetBestBet** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBet>

The SOAP body contains the **GetBestBet** element.

#### 3.1.4.17.1.2

### **ISearchSiteAdministrationServiceApplication\_GetBestBet\_OutputMessage**

The response WSDL message for the **GetBestBet** WSDL operation.

The SOAP body contains the **GetBestBetResponse** element.

#### 3.1.4.17.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.17.2.1 GetBestBet

The input data for the **GetBestBet** WSDL operation.

```
<xs:element name="GetBestBet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**url:** The URL of the best bet to be returned. This value MUST NOT be null.

**consumerGpId:** The unique identifier of the keyword consumer that has the best bet definition to be returned. This value MUST NOT be null. The syntax is specified in section [2.2.5.4](#).

##### 3.1.4.17.2.2 GetBestBetResponse

The result data for the **GetBestBet** WSDL operation.

```
<xs:element name="GetBestBetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetResult" nillable="true"
        xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q30:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBestBetResult:** Information about the best bet definition MUST be a **BestBet** data type as specified in section [2.2.4.6](#).

#### 3.1.4.17.3 Complex Types

None.

#### 3.1.4.17.4 Simple Types

None.

#### 3.1.4.17.5 Attributes

None.

#### 3.1.4.17.6 Groups

None.

#### 3.1.4.17.7 Attribute Groups

None.

#### 3.1.4.18 GetBestBetForSpecialTerm

This operation is used by the protocol client to retrieve information from the protocol server about a best bet given the URL, keyword and the identifier of keyword consumer.

```
<wsdl:operation name="GetBestBetForSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTermSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an

[ISearchSiteAdministrationServiceApplication\\_GetBestBetForSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an

[ISearchSiteAdministrationServiceApplication\\_GetBestBetForSpecialTerm\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the URL, the keyword, and the identifier of the keyword consumer for the best bet for which the information MUST be returned.
- On receipt, the protocol server MUST return the information of the **best bet** matching the given URL, the keyword, and the identifier of the keyword consumer as a **BestBet** data type as specified in section [2.2.4.15](#).
- If the protocol server does not find a best bet definition in the specified keyword consumer with the given URL and keyword, it MUST abort this operation and return a **FaultException<SearchServiceApplicationFault>** error message, where **SearchServiceApplicationFault** is as specified in [\[MS-QSSWS\]](#) section 2.2.4.1.

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.18.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.18.1.1

##### **ISearchSiteAdministrationServiceApplication\_GetBestBetForSpecialTerm\_InputMessage**

The request WSDL message for the **GetBestBetForSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTerm
```

The SOAP body contains the **GetBestBetForSpecialTerm** element.

#### 3.1.4.18.1.2

##### **ISearchSiteAdministrationServiceApplication\_GetBestBetForSpecialTerm\_OutputMessage**

The response WSDL message for the **GetBestBetForSpecialTerm** WSDL operation.

The SOAP body contains the **GetBestBetForSpecialTermResponse** element.

### 3.1.4.18.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.18.2.1 **GetBestBetForSpecialTerm**

The input data for the **GetBestBetForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI"/>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
xmlns:q31="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q31:Keyword"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**url:** The URL of the best bet. This value MUST NOT be NULL and MUST be a valid and absolute URL.

**parentSpecialTerm:** Specifies the information of a keyword. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

**consumerGpId:** The GUID that identifies the keyword consumer. It MUST NOT be null and its length MUST be less than or equal to 50. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.18.2.2 GetBestBetForSpecialTermResponse

The result data for the **GetBestBetForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetForSpecialTermResult" nillable="true"
        xmlns:q32="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q32:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBestBetForSpecialTermResult:** Specifies the information of a best bet. MUST be a **BestBet** data type as specified in section [2.2.4.15](#).

### 3.1.4.18.3 Complex Types

None.

### 3.1.4.18.4 Simple Types

None.

### 3.1.4.18.5 Attributes

None.

### 3.1.4.18.6 Groups

None.

### 3.1.4.18.7 Attribute Groups

None.

### 3.1.4.19 GetBestBetsCount

This operation is used by the protocol client to retrieve information from the protocol server about the count of best bets for a given keyword consumer.

```
<wsdl:operation name="GetBestBetsCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCount_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsCount\\_InputMessage](#) request message and the protocol server responds with an

[ISearchSiteAdministrationServiceApplication\\_GetBestBetsCount\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the keyword consumer, best bet filter, and the value for the best bet filter, for which the count of best bets MUST be returned.
- On success, the protocol server MUST return the count of best bets for the given keyword consumer whose unique identifier is equal to **consumerGpId** in the input message. The count is computed by applying the best bet filter, and the value for the best bet filter in the input message.
- If the input **value** is null or the input **filter** is equal to **BestBetFilter.None**, the protocol server MUST ignore the **filter** on computing the count for best bets. Otherwise, the protocol server MUST apply **filter** and **value** on computing the count for best bets. The matching rules are specified in section [3.1.4.19.2.1](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.19.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.19.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsCount\_InputMessage**

The request WSDL message for the **GetBestBetsCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCount
```

The SOAP body contains the **GetBestBetsCount** element.

#### 3.1.4.19.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsCount\_OutputMessage**

The response WSDL message for the **GetBestBetsCount** WSDL operation.

The SOAP body contains the **GetBestBetsCountResponse** element.

### 3.1.4.19.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.19.2.1 **GetBestBetsCount**

The input data for the **GetBestBetsCount** WSDL operation.

```
<xs:element name="GetBestBetsCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filter"
        xmlns:q49="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q49:BestBetFilter"/>
      <xs:element minOccurs="0" name="value" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

        <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
</xs:element>

```

**filter:** The best bet filter to apply when computing the count of best bets. MUST be a **BestBetFilter** data type as specified in section [2.2.5.1](#).

**value:** The supplemental input element for **filter** element. Its meaning depends on **filter** element. Its length MUST be less than or equal to 2,048.

- If **filter** is **BestBetFilter.BestBetTitle**, the protocol server MUST count only best bets whose title is LIKE **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is **BestBetFilter.BestBetUrl**, the protocol server MUST count only best bets whose URL is LIKE **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is **BestBetFilter.Both**, the protocol server MUST count only best bets whose either title or URL is LIKE **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is **BestBetFilter.None** or the **value** is null, the protocol server MUST NOT apply **filter**.

**consumerGpId:** The GUID that identifies the keyword consumer. It MUST NOT be null and its length MUST be less than or equal to 50. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.19.2 GetBestBetsCountResponse

The result data for the **GetBestBetsCount** WSDL operation.

```

<xs:element name="GetBestBetsCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetBestBetsCountResult:** Contains the count for best bets for a given keyword consumer with the best bet **filter** and **value** in the input message being applied.

### 3.1.4.19.3 Complex Types

None.

### 3.1.4.19.4 Simple Types

None.

### 3.1.4.19.5 Attributes

None.



### 3.1.4.19.6 Groups

None.

### 3.1.4.19.7 Attribute Groups

None.

### 3.1.4.20 GetBestBetsCountForSpecialTerm

This operation is used by the protocol client to retrieve the number of best bets defined in the protocol server for a given keyword.

```
<wsdl:operation name="GetBestBetsCountForSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsCountForSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsCountForSpecialTerm\\_OuputMessage](#) response message, as follows:

- The protocol client MUST specify, in the **st** element of the request message, the keyword whose best bets will be counted.
- The protocol server MUST return in element **GetBestBetsCountForSpecialTermResult** a value greater or equal to zero that is the count of all best bets associated with the keyword passed in element **st**.
- If the specified keyword is not found on the protocol server it MUST return a count of zero.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.20.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.20.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsCountForSpecialTerm\_InputMessage**

The request WSDL message for the **GetBestBetsCountForSpecialTerm** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountForSpecialTerm>

The SOAP body contains the **GetBestBetsCountForSpecialTerm** element.

#### 3.1.4.20.1.2

### **ISearchSiteAdministrationServiceApplication\_GetBestBetsCountForSpecialTerm\_OutputMessage**

The response WSDL message for the **GetBestBetsCountForSpecialTerm** WSDL operation.

The SOAP body contains the **GetBestBetsCountForSpecialTermResponse** element.

#### 3.1.4.20.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.20.2.1 GetBestBetsCountForSpecialTerm

The input data for the **GetBestBetsCountForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsCountForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="st" nillable="true"
xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q44:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**st:** The keyword whose best bets are to be counted. MUST be of **Keyword** data type, as specified in section [2.2.4.20](#).

##### 3.1.4.20.2.2 GetBestBetsCountForSpecialTermResponse

The result data for the **GetBestBetsCountForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsCountForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsCountForSpecialTermResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBestBetsCountForSpecialTermResult:** The count of the best bets associated with the specified keyword.

#### 3.1.4.20.3 Complex Types

None.

#### 3.1.4.20.4 Simple Types

None.

#### 3.1.4.20.5 Attributes

None.

#### 3.1.4.20.6 Groups

None.

#### 3.1.4.20.7 Attribute Groups

None.

#### 3.1.4.21 GetBestBetsInfo

This operation is used by the protocol client to retrieve information from the protocol server about all best bets for a given keyword consumer.

```
<wsdl:operation name="GetBestBetsInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the filter which the returned best bets conform to and the unique identifier of the keyword consumer that has the best bets.
- The protocol server MUST return a list of best bets that belong to the keyword consumer whose identifier is in the element **consumerGpId** of the request message, filtered according to elements **filter** and **value**.
- If the value of the **consumerGpId** element does not correspond to a valid site identifier, the protocol server MUST return an empty best bet list.
- If the **value** element of the request message is NULL, the protocol server MUST apply no filtering to the best bet list, in the same way it would if **filter** had the value **BestBetFilter.None**.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

##### 3.1.4.21.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.21.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsInfo\_InputMessage**

The request WSDL message for the **GetBestBetsInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfo
```

The SOAP body contains the **GetBestBetsInfo** element.

### 3.1.4.21.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsInfo\_OutputMessage**

The response WSDL message for the **GetBestBetsInfo** WSDL operation.

The SOAP body contains the **GetBestBetsInfoResponse** element.

### 3.1.4.21.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.21.2.1 **GetBestBetsInfo**

The input data for the **GetBestBetsInfo** WSDL operation.

```
<xs:element name="GetBestBetsInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="filter"
        xmlns:q47="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration"
        type="q47:BestBetFilter"/>
      <xs:element minOccurs="0" name="value" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**filter:** The kind of filtering to apply to the site's best bets definitions. MUST be of **BestBetFilter** data type as specified in section [2.2.5.1](#). This value MUST NOT be NULL.

**value:** The value the best bet definitions are filtered against, as specified in section [2.2.5.1](#). This value MUST be a string with length less than or equal to 2048 or it MUST be NULL.

**consumerGpId:** The unique identifier of the keyword consumer whose best bet definitions are to be returned. This value MUST NOT be NULL and its length MUST be less than or equal to 50 characters. The syntax is specified in section [2.2.5.4](#).

#### 3.1.4.21.2.2 **GetBestBetsInfoResponse**

The result data for the **GetBestBetsInfo** WSDL operation.

```
<xs:element name="GetBestBetsInfoResponse">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsInfoResult" nillable="true"
        xmlns:q48="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q48:ArrayOfKeyValueOfanyURIBestBety6h3NzC8"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetBestBetsInfoResult:** The list of returned best bets. It MUST be of data type **ArrayOfKeyValueOfanyURIBestBety6h3NzC8** data type as specified in section [2.2.4.6](#).

### 3.1.4.21.3 Complex Types

None.

### 3.1.4.21.4 Simple Types

None.

### 3.1.4.21.5 Attributes

None.

### 3.1.4.21.6 Groups

None.

### 3.1.4.21.7 Attribute Groups

None.

## 3.1.4.22 GetBestBetsInfoForSpecialTerm

This operation is used by the protocol client to retrieve information from the protocol server about all best bets for a given keyword.

```

<wsdl:operation name="GetBestBetsInfoForSpecialTerm">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoForSpecialTerm"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoForSpecialTermResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsInfoForSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsInfoForSpecialTerm\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword for which the information of all best bets MUST be returned.
- On success, the protocol server MUST return the response message with the information of all best bets for the given keyword in an **ArrayOfKeyValueOfanyURIBestBety6h3NzC8** data type as specified in section [2.2.4.6](#) which maps from **BestBet.url** to **BestBet**, and also in an **ArrayOfanyType** data type as specified in section [2.2.4.2](#) which contains the array of identifiers of the best bets for the keyword.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.22.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.22.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsInfoForSpecialTerm\_InputMessage**

The request WSDL message for the **GetBestBetsInfoForSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoForSpecialTerm
```

The SOAP body contains the **GetBestBetsInfoForSpecialTerm** element.

#### 3.1.4.22.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsInfoForSpecialTerm\_OutputMessage**

The response WSDL message for the **GetBestBetsInfoForSpecialTerm** WSDL operation.

The SOAP body contains the **GetBestBetsInfoForSpecialTermResponse** element.

### 3.1.4.22.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.22.2.1 GetBestBetsInfoForSpecialTerm

The input data for the **GetBestBetsInfoForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsInfoForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="st" nillable="true"
xmlns:q40="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q40:Keyword"/>
      <xs:element minOccurs="0" name="bestBetIds" nillable="true"
xmlns:q41="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q41:ArrayOfanyType"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**st:** Specifies the keyword for which the protocol server MUST return the information of all best bets. It MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

**bestBetIds:** Specifies the output data type to hold the identifiers of all best bets for the given keyword. MUST NOT be NULL. MUST be an **ArrayOfanyType** data type as specified in section [2.2.4.2](#).

### 3.1.4.22.2.2 GetBestBetsInfoForSpecialTermResponse

The result data for the **GetBestBetsInfoForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsInfoForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsInfoForSpecialTermResult" nillable="true"
        xmlns:q42="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q42:ArrayOfKeyValueOfanyURIBestBety6h3NzC8"/>
      <xs:element minOccurs="0" name="bestBetIds" nillable="true"
        xmlns:q43="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q43:ArrayOfanyType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBestBetsInfoForSpecialTermResult:** Specifies a dictionary which maps from **BestBet.url** to **BestBet** for all the best bets for the given keyword. MUST be an **ArrayOfKeyValueOfanyURIBestBety6h3NzC8** data type as specified in section [2.2.4.6](#).

**bestBetIds:** Specifies the list of identifiers for all best bets for the given keyword, in the order of that the best bets are associated with the keyword. MUST be an **ArrayOfanyType** data type as specified in section [2.2.4.2](#).

### 3.1.4.22.3 Complex Types

None.

### 3.1.4.22.4 Simple Types

None.

### 3.1.4.22.5 Attributes

None.

### 3.1.4.22.6 Groups

None.

### 3.1.4.22.7 Attribute Groups

None.

### 3.1.4.23 GetBestBetsOrderInfoForSpecialTerm

This operation is used by the protocol client to retrieve from the protocol server the identifiers of all best bets for a given keyword, in the order of that best bets are shown on the search results for the given keyword.

```
<wsdl:operation name="GetBestBetsOrderInfoForSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderI
nfoForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_I
nputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderI
nfoForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_O
utputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsOrderInfoForSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetBestBetsOrderInfoForSpecialTerm\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword in the input message.
- On receipt, the protocol server uses the input keyword to find all best bets for it and MUST return the identifiers of the best bets in an **ArrayOfanyType** data type as specified in section [2.2.4.2](#). The identifiers of best bets are ordered according to the rank of the best bets are on the search results for the input keyword.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.23.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.23.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsOrderInfoForSpecialTerm\_InputMessage**

The request WSDL message for the **GetBestBetsOrderInfoForSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderInfoForSpecial
Term
```

The SOAP body contains the **GetBestBetsOrderInfoForSpecialTerm** element.



### 3.1.4.23.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetBestBetsOrderInfoForSpecialTerm\_OutputMessage**

The response WSDL message for the **GetBestBetsOrderInfoForSpecialTerm** WSDL operation.

The SOAP body contains the **GetBestBetsOrderInfoForSpecialTermResponse** element.

### 3.1.4.23.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.23.2.1 **GetBestBetsOrderInfoForSpecialTerm**

The input data for the **GetBestBetsOrderInfoForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsOrderInfoForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="st" nillable="true"
        xmlns:q45="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q45:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**st:** Specifies the keyword for which the protocols MUST returns the best bets' identifiers in the order that the best bets are shown on the search results for the given keyword. It MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

#### 3.1.4.23.2.2 **GetBestBetsOrderInfoForSpecialTermResponse**

The result data for the **GetBestBetsOrderInfoForSpecialTerm** WSDL operation.

```
<xs:element name="GetBestBetsOrderInfoForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsOrderInfoForSpecialTermResult"
        nillable="true" xmlns:q46="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q46:ArrayOfanyType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetBestBetsOrderInfoForSpecialTermResult:** Specifies the order of all best bets for the given keyword. MUST be an **ArrayOfanyType** data type as specified in section [2.2.4.2](#). Each **anyType** element in **GetBestBetsOrderInfoForSpecialTermResult** is an identifier of a best bet defined in the protocol server, which is a **BestBet.id** data type as specified in section [2.2.4.15](#). The identifiers of best bets are ordered as the same as the best bets are shown on the search results for the input keyword.

### 3.1.4.23.3 Complex Types

None.

#### 3.1.4.23.4 Simple Types

None.

#### 3.1.4.23.5 Attributes

None.

#### 3.1.4.23.6 Groups

None.

#### 3.1.4.23.7 Attribute Groups

None.

#### 3.1.4.24 GetChangedConsumers

This operation is used by the protocol client to retrieve from the protocol server the names of all search scope consumers which have **search scopes** with timestamp higher than the given time stamp and the latest change timestamp at the protocol server to search scope consumers.

```
<wsdl:operation name="GetChangedConsumers">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumers"
  >
    message="tns:ISearchSiteAdministrationServiceApplication_GetChangedConsumers_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumersResponse"
  >
    message="tns:ISearchSiteAdministrationServiceApplication_GetChangedConsumers_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetChangedConsumers\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetChangedConsumers\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify a change timestamp, which is a type of **LastConsumerChangeID** in the protocol server as specified in [\[MS-SQLPADM\]](#) section 2.2.2.13. The latest change timestamp at the protocol server MAY be retrieved in the response message of this operation. The protocol client MAY save that change timestamp for later calls of GetChangedConsumer operation.
- On success, the protocol server MUST return in the response message the names of all search scope consumers that have search scopes with higher timestamp than the given change timestamp. The response message MUST also contain the current latest change timestamp in the protocol server.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.24.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.24.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetChangedConsumers\_InputMessage**

The request WSDL message for the **GetChangedConsumers** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumers
```

The SOAP body contains the **GetChangedConsumers** element.

### 3.1.4.24.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetChangedConsumers\_OutputMessage**

The response WSDL message for the **GetChangedConsumers** WSDL operation.

The SOAP body contains the **GetChangedConsumersResponse** element.

### 3.1.4.24.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.24.2.1 GetChangedConsumers

The input data for the **GetChangedConsumers** WSDL operation.

```
<xs:element name="GetChangedConsumers">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="lastChangeTimeStamp" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lastChangeTimeStamp:** Specifies the version whose value MUST be a **LastConsumerChangeID** data type as specified in [\[MS-SQLPADM\]](#) section 2.2.2.13.

#### 3.1.4.24.2.2 GetChangedConsumersResponse

The result data for the **GetChangedConsumers** WSDL operation.

```
<xs:element name="GetChangedConsumersResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetChangedConsumersResult" nillable="true"
xmlns:q64="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q64:ArrayOfstring"/>
      <xs:element minOccurs="0" name="lastChangeTimeStamp" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetChangedConsumersResult:** Contains the names of the search scope consumers that have a search scope changed since the specified **lastChangeTimeStamp**. MUST be an **ArrayOfstring** data type as specified in section [2.2.4.12](#). Each string in the array MUST be a name of a search scope defined in the protocol server.

**lastChangeTimeStamp:** Contains the current value of **LastConsumerChangeID** in the protocol server as specified in [\[MS-SQLPADM\]](#) section 2.2.2.13.

### 3.1.4.24.3 Complex Types

None.

### 3.1.4.24.4 Simple Types

None.

### 3.1.4.24.5 Attributes

None.

### 3.1.4.24.6 Groups

None.

### 3.1.4.24.7 Attribute Groups

None.

### 3.1.4.25 GetConsumerInformation

This operation is used by the protocol client to retrieve information from the protocol server about a search scope consumer.

```
<wsdl:operation name="GetConsumerInformation">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInformation"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumerInformation_InputMessage"
/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInformationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumerInformation_OutputMessage"
"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetConsumerInformation\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetConsumerInformation\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name that uniquely identifies the search scope consumer whose information is to be returned.

- The protocol server MUST return in the **GetConsumerInformationResult** element of the response message the information for the specified search scope consumer.
- If a search scope consumer does not exist in the protocol server with the specified name, it MUST return a **ConsumerInfo** with **ConsumerInfo.LastRefreshTimeStamp** equal to zero and empty arrays:
  - **ConsumerInfo.ConsumerScopes**,
  - **ConsumerInfo.ConsumerDisplayGroups** and
  - **ConsumerInfo.DisplayGroupMemberships**.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.25.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.25.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetConsumerInformation\_InputMessage**

The request WSDL message for the **GetConsumerInformation** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInformation
```

The SOAP body contains the **GetConsumerInformation** element.

#### 3.1.4.25.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetConsumerInformation\_OutputMessage**

The response WSDL message for the **GetConsumerInformation** WSDL operation.

The SOAP body contains the **GetConsumerInformationResponse** element.

### 3.1.4.25.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.25.2.1 GetConsumerInformation

The input data for the **GetConsumerInformation** WSDL operation.

```
<xs:element name="GetConsumerInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The name that uniquely identifies the search scope consumer. This value MUST NOT be NULL and MUST be a string with length equal to or less than 60 characters.

### 3.1.4.25.2.2 GetConsumerInformationResponse

The result data for the **GetConsumerInformation** WSDL operation.

```
<xs:element name="GetConsumerInformationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetConsumerInformationResult" nillable="true"
xmlns:q63="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q63:ConsumerInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetConsumerInformationResult:** The returned information for the specified search scope consumer. MUST be of data type **ConsumerInfo** as specified in section [3.1.4.25.3.1](#).

### 3.1.4.25.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.25.3.1 ConsumerInfo

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ConsumerInfo** complex type contains information about a search scope consumer.

```
<xs:complexType name="ConsumerInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConsumerDisplayGroups" nillable="true"
type="tns:ArrayOfDisplayGroupInfo"/>
    <xs:element minOccurs="0" name="ConsumerScopes" nillable="true"
type="tns:ArrayOfScopeInfo"/>
    <xs:element minOccurs="0" name="DisplayGroupMemberships" nillable="true"
type="tns:ArrayOfDisplayGroupMembership"/>
    <xs:element minOccurs="0" name="LastRefreshTimeStamp" type="xs:long"/>
  </xs:sequence>
</xs:complexType>
```

**ConsumerDisplayGroups:** An array holding all the search scope display groups associated with the search scope consumer. MUST be of data type **ArrayOfDisplayGroupInfo**, as specified in section [2.2.4.3](#).

**ConsumerScopes:** An array holding all the search scopes associated with the search scope consumer. MUST be of data type **ArrayOfScopeInfo**, as specified in section [2.2.4.11](#).

**DisplayGroupMemberships:** An array holding all **DisplayGroupMembership** elements that represent links between search scopes and search scope display groups that belong to the specified search scope consumer. MUST be of data type **ArrayOfDisplayGroupMembership** as specified in section [3.1.4.25.3.2](#).

**LastRefreshTimeStamp:** Represents the version of the set of search scope consumers in the protocol server. Whenever it makes a change to this representation of any search scope consumers, it MUST increment this value. It MAY be later used by the protocol client, when calling [GetChangedConsumers](#), to know which search scope consumers have changed. In this way the protocol client can retrieve information for only those changed search scope consumers, rather than all of them.

### 3.1.4.25.3.2 ArrayOfDisplayGroupMembership

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **ArrayOfDisplayGroupMembership** complex type holds an array of **DisplayGroupMembership**.

```
<xs:complexType name="ArrayOfDisplayGroupMembership">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DisplayGroupMembership"
      nillable="true" type="tns:DisplayGroupMembership"/>
  </xs:sequence>
</xs:complexType>
```

**DisplayGroupMembership:** An element in the array. MUST be of data type **DisplayGroupMembership**, as specified in section [3.1.4.25.3.3](#).

### 3.1.4.25.3.3 DisplayGroupMembership

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **DisplayGroupMembership** complex type contains information about the membership association of a search scope in a search scope display group.

```
<xs:complexType name="DisplayGroupMembership">
  <xs:sequence>
    <xs:element minOccurs="0" name="DisplayGroupId" type="xs:int"/>
    <xs:element minOccurs="0" name="ScopeId" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**DisplayGroupId:** The identifier of the search scope display group. MUST NOT be NULL and MUST be non-negative.

**ScopeId:** The identifier of the search scope. MUST NOT be NULL and MUST be non-negative.

### 3.1.4.25.4 Simple Types

None.

### 3.1.4.25.5 Attributes

None.

### 3.1.4.25.6 Groups

None.

### 3.1.4.25.7 Attribute Groups

None.

### 3.1.4.26 GetConsumers

This operation is used by the protocol client to retrieve information about the consumers of the search scopes in the protocol server.

```
<wsdl:operation name="GetConsumers">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumers"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumers_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumersResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumers_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetConsumers\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetConsumers\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the response message with an array of strings. Each string represents the name of a site collection that is defined as a consumer of the search scopes in the protocol server.
- For a shared search scope the protocol server MUST return **String.Empty** as the consumer of the search scope.
- For a local search scope the protocol server MUST return the name of the site collection that created the search scope.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.26.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.26.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetConsumers\_InputMessage**

The request WSDL message for the **GetConsumers** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumers
```

The SOAP body contains the **GetConsumers** element.



### 3.1.4.26.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetConsumers\_OutputMessage**

The response WSDL message for the **GetConsumers** WSDL operation.

The SOAP body contains the **GetConsumersResponse** element.

### 3.1.4.26.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.26.2.1 GetConsumers

The input data for the **GetConsumers** WSDL operation.

```
<xs:element name="GetConsumers">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.26.2.2 GetConsumersResponse

The result data for the **GetConsumers** WSDL operation.

```
<xs:element name="GetConsumersResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetConsumersResult" nillable="true"
        xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q68:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetConsumersResult:** An array of strings. Each string **MUST** represent the name of a site collection that is defined as a consumer of search scopes in the protocol server. **MUST** be an **ArrayOfstring** data type as specified in section [2.2.4.12](#).

#### 3.1.4.26.3 Complex Types

None.

#### 3.1.4.26.4 Simple Types

None.

#### 3.1.4.26.5 Attributes

None.

#### 3.1.4.26.6 Groups

None.

### 3.1.4.26.7 Attribute Groups

None.

### 3.1.4.27 GetContainingDisplayGroups

This operation is used by the protocol client to retrieve from the protocol server the list of identifiers of search scope display groups for a search scope.

```
<wsdl:operation name="GetContainingDisplayGroups">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroups"
    message="tns:ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroupsResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetContainingDisplayGroups\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetContainingDisplayGroups\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of search scope for which the list of identifiers of search scope display groups MUST be returned.
- On receipt, the protocol server interprets the unique identifier to find the search scope and MUST return the list of identifiers of search scope display groups for the search scope in an **ArrayOfInt** data type as specified in section [2.2.4.5](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.27.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.27.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetContainingDisplayGroups\_InputMessage**

The request WSDL message for the **GetContainingDisplayGroups** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroups
```

The SOAP body contains the **GetContainingDisplayGroups** element.

### 3.1.4.27.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetContainingDisplayGroups\_OutputMessage**

The response WSDL message for the **GetContainingDisplayGroups** WSDL operation.

The SOAP body contains the **GetContainingDisplayGroupsResponse** element.

### 3.1.4.27.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.27.2.1 **GetContainingDisplayGroups**

The input data for the **GetContainingDisplayGroups** WSDL operation.

```
<xs:element name="GetContainingDisplayGroups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeId:** Specifies a unique identifier of the search scope.

#### 3.1.4.27.2.2 **GetContainingDisplayGroupsResponse**

The result data for the **GetContainingDisplayGroups** WSDL operation.

```
<xs:element name="GetContainingDisplayGroupsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetContainingDisplayGroupsResult" nillable="true"
        xmlns:q78="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q78:ArrayOfint"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetContainingDisplayGroupsResult:** An array of unique identifiers. Each identifier MUST represent a search scope display group defined in the protocol server. MUST be an **ArrayOfInt** data type as specified in section [2.2.4.5](#).

### 3.1.4.27.3 Complex Types

None.

### 3.1.4.27.4 Simple Types

None.

### 3.1.4.27.5 Attributes

None.

### 3.1.4.27.6 Groups

None.

### 3.1.4.27.7 Attribute Groups

None.

### 3.1.4.28 GetContentSourceNames

This operation is used by the protocol client to retrieve the unique values for the managed property with **ManagedPropertyInfo.Name** equal to "content source" from the protocol server as specified in section [2.2.4.22](#).

```
<wsdl:operation name="GetContentSourceNames">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNames"
    message="tns:ISearchSiteAdministrationServiceApplication_GetContentSourceNames_InputMessage"/
  >
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNamesResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetContentSourceNames_OutputMessage"
  />
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetContentSourceNames\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetContentSourceNames\\_OutputMessage](#) response message, as follows.

- On success, the protocol server MUST return an array of values for the **content source** managed property in an **ArrayOfstring** data type as specified in section [2.2.4.12](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.28.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.28.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetContentSourceNames\_InputMessage**

The request WSDL message for the **GetContentSourceNames** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNames
```

The SOAP body contains the **GetContentSourceNames** element.

### 3.1.4.28.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetContentSourceNames\_OutputMessage**

The response WSDL message for the **GetContentSourceNames** WSDL operation.

The SOAP body contains the **GetContentSourceNamesResponse** element.

### 3.1.4.28.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.28.2.1 GetContentSourceNames

The input data for the **GetContentSourceNames** WSDL operation.

```
<xs:element name="GetContentSourceNames">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.28.2.2 GetContentSourceNamesResponse

The result data for the **GetContentSourceNames** WSDL operation.

```
<xs:element name="GetContentSourceNamesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetContentSourceNamesResult" nillable="true"
        xmlns:q65="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q65:ArrayOfstring"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetContentSourceNamesResult:** An array of values of the **content source** managed property. MUST be an **ArrayOfstring** data type as specified in section [2.2.4.12](#).

### 3.1.4.28.3 Complex Types

None.

### 3.1.4.28.4 Simple Types

None.

### 3.1.4.28.5 Attributes

None.

### 3.1.4.28.6 Groups

None.

### 3.1.4.28.7 Attribute Groups

None.

### 3.1.4.29 GetDisplayGroupIDFromName

This operation is used by the protocol client to retrieve the identifier from the protocol server of a search scope display group given the search scope consumer's name and the search scope display group's name.

```
<wsdl:operation name="GetDisplayGroupIDFromName">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromName"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromNameResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupIDFromName\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupIDFromName\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name of the search scope consumer and the name of the search scope display group for which the identifier of the search scope display group MUST be returned.
- On receipt, the protocol server uses the name of the search scope consumer and the name of the search scope display group to find the search scope display group whose name matches with the input search scope display group's name and which belongs to search scope consumer. If found, the protocol server MUST return in the response message the identifier of the search scope display group.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.29.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.29.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupIDFromName\_InputMessage**

The request WSDL message for the **GetDisplayGroupIDFromName** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromName
```

The SOAP body contains the **GetDisplayGroupIDFromName** element.

#### 3.1.4.29.1.2

### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupIDFromName\_OutputMessage**

The response WSDL message for the **GetDisplayGroupIDFromName** WSDL operation.

The SOAP body contains the **GetDisplayGroupIDFromNameResponse** element.

#### 3.1.4.29.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.29.2.1 GetDisplayGroupIDFromName

The input data for the **GetDisplayGroupIDFromName** WSDL operation.

```
<xs:element name="GetDisplayGroupIDFromName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** Specifies the name of the search scope consumer that the search scope display group belongs to. MUST NOT be NULL. And its length MUST be less than or equal to 60.

**name:** Specifies the name of the search scope display group for which the protocol server MUST return the identifier. MUST NOT be NULL. And its length MUST be less than or equal to 60.

##### 3.1.4.29.2.2 GetDisplayGroupIDFromNameResponse

The result data for the **GetDisplayGroupIDFromName** WSDL operation.

```
<xs:element name="GetDisplayGroupIDFromNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDisplayGroupIDFromNameResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDisplayGroupIDFromNameResult:** Specifies the identifier of the search scope display group matching the name of the given search scope consumer and the name of the search scope display group. The identifier MUST be greater than or equal to zero.

#### 3.1.4.29.3 Complex Types

None.

#### 3.1.4.29.4 Simple Types

None.

#### 3.1.4.29.5 Attributes

None.

#### 3.1.4.29.6 Groups

None.

#### 3.1.4.29.7 Attribute Groups

None.

#### 3.1.4.30 GetDisplayGroupInfo

This operation is used by the protocol client to retrieve information from the protocol server about a search scope display group given its identifier.

```
<wsdl:operation name="GetDisplayGroupInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope display group for which the information MUST be returned.
- On receipt, the protocol server uses the displayGroupId element to find the search scope display group and MUST return the information for the search scope display group in a **DisplayGroupInfo** data type as specified in section [2.2.4.18](#).
- If the protocol server is unable to find a search scope display group corresponding to the unique identifier passed in by the protocol client then it MUST set **DisplayGroupInfo.IsDeleted** to true. Otherwise **DisplayGroupInfo.IsDeleted** MUST be set to false.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

##### 3.1.4.30.1 Messages

The following WSDL message definitions are specific to this operation.



### 3.1.4.30.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupInfo\_InputMessage**

The request WSDL message for the **GetDisplayGroupInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfo
```

The SOAP body contains the **GetDisplayGroupInfo** element.

### 3.1.4.30.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupInfo\_OutputMessage**

The response WSDL message for the **GetDisplayGroupInfo** WSDL operation.

The SOAP body contains the **GetDisplayGroupInfoResponse** element.

### 3.1.4.30.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.30.2.1 **GetDisplayGroupInfo**

The input data for the **GetDisplayGroupInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**displayGroupId:** Specifies a unique identifier of the search scope display group.

#### 3.1.4.30.2.2 **GetDisplayGroupInfoResponse**

The result data for the **GetDisplayGroupInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDisplayGroupInfoResult" nillable="true"
xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q13:DisplayGroupInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDisplayGroupInfoResult:** Information about the search scope display group. MUST be a **DisplayGroupInfo** data type as specified in section [2.2.4.18](#).

If **GetDisplayGroupInfoResult.IsDeleted** is true then all other child elements MUST be ignored by the client.

### 3.1.4.30.3 Complex Types

None.

### 3.1.4.30.4 Simple Types

None.

### 3.1.4.30.5 Attributes

None.

### 3.1.4.30.6 Groups

None.

### 3.1.4.30.7 Attribute Groups

None.

### 3.1.4.31 GetDisplayGroupListInfo

This operation is used by the protocol client to retrieve information from the protocol server about the list of identifiers of search scopes in a search scope display group in the order of rank, given the search scope display group's unique identifier. The rank is decided by **SetDisplayGroupListInfo** as specified in section [3.1.4.75](#).

```
<wsdl:operation name="GetDisplayGroupListInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupListInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_InputMessage"
"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupListInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_OutputMessage"
"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupListInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupListInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of search scope display group.
- On receipt, the protocol server MUST return in the response message a list of identifiers of search scopes for the search scope display group ordered by rank, matching the unique identifier for the

search scope display group in the input message. Each identifier MUST represent a search scope associated with the search scope display group defined in the protocol server.

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.31.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.31.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupListInfo\_InputMessage**

The request WSDL message for the **GetDisplayGroupListInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupListInfo
```

The SOAP body contains the **GetDisplayGroupListInfo** element.

#### 3.1.4.31.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupListInfo\_OutputMessage**

The response WSDL message for the **GetDisplayGroupListInfo** WSDL operation.

The SOAP body contains the **GetDisplayGroupListInfoResponse** element.

### 3.1.4.31.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.31.2.1 GetDisplayGroupListInfo

The input data for the **GetDisplayGroupListInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupListInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**displayGroupId:** Specifies a unique identifier of the search scope display group.

#### 3.1.4.31.2.2 GetDisplayGroupListInfoResponse

The result data for the **GetDisplayGroupListInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupListInfoResponse">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" name="GetDisplayGroupListInfoResult" nillable="true"
        xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q15:ArrayOfint"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetDisplayGroupListInfoResult:** An array of identifiers of search scopes for the given search scope display group, ordered by rank. Each identifier MUST represent a search scope defined in the protocol server. MUST be an **ArrayOfInt** data type as specified in section [2.2.4.5](#).

### 3.1.4.31.3 Complex Types

None.

### 3.1.4.31.4 Simple Types

None.

### 3.1.4.31.5 Attributes

None.

### 3.1.4.31.6 Groups

None.

### 3.1.4.31.7 Attribute Groups

None.

## 3.1.4.32 GetDisplayGroupsCount

This operation is used by the protocol client to retrieve from the protocol server the count of all search scope display groups.

```

<wsdl:operation name="GetDisplayGroupsCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCountResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_OutputMessage"
  />
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsCount\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the count of all search scope display groups.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.32.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.32.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsCount\_InputMessage**

The request WSDL message for the **GetDisplayGroupsCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCount
```

The SOAP body contains the **GetDisplayGroupsCount** element.

#### 3.1.4.32.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsCount\_OutputMessage**

The response WSDL message for the **GetDisplayGroupsCount** WSDL operation.

The SOAP body contains the **GetDisplayGroupsCountResponse** element.

### 3.1.4.32.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.32.2.1 GetDisplayGroupsCount

The input data for the **GetDisplayGroupsCount** WSDL operation.

```
<xs:element name="GetDisplayGroupsCount">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.32.2.2 GetDisplayGroupsCountResponse

The result data for the **GetDisplayGroupsCount** WSDL operation.

```
<xs:element name="GetDisplayGroupsCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDisplayGroupsCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
```

```
</xs:element>
```

**GetDisplayGroupsCountResult:** The count of all search scope display groups defined in the protocol server.

### 3.1.4.32.3 Complex Types

None.

### 3.1.4.32.4 Simple Types

None.

### 3.1.4.32.5 Attributes

None.

### 3.1.4.32.6 Groups

None.

### 3.1.4.32.7 Attribute Groups

None.

## 3.1.4.33 GetDisplayGroupsForConsumer

This operation is used by the protocol client to retrieve information from the protocol server about all search scope display groups for a search scope consumer.

```
<wsdl:operation name="GetDisplayGroupsForConsumer">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsForConsumer"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsForConsumerResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsForConsumer\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsForConsumer\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the search scope consumer name for which the information of all search scope display groups MUST be returned.
- On receipt, the protocol server finds the information of all search scope display groups for the search scope consumer and MUST return the information in an **ArrayOfDisplayGroupInfo** data

type as specified in section [2.2.4.3](#). If the search scope consumer name is not found, the protocol server MUST return an empty **ArrayOfDisplayGroupInfo**.

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.33.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.33.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsForConsumer\_InputMessage**

The request WSDL message for the **GetDisplayGroupsForConsumer** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsForConsumer
```

The SOAP body contains the **GetDisplayGroupsForConsumer** element.

#### 3.1.4.33.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsForConsumer\_OutputMessage**

The response WSDL message for the **GetDisplayGroupsForConsumer** WSDL operation.

The SOAP body contains the **GetDisplayGroupsForConsumerResponse** element.

### 3.1.4.33.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.33.2.1 **GetDisplayGroupsForConsumer**

The input data for the **GetDisplayGroupsForConsumer** WSDL operation.

```
<xs:element name="GetDisplayGroupsForConsumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The search scope consumer name for which to retrieve all search scope display groups. It MUST be present and its length MUST be less than or equal to 60. It MUST NOT be NULL.

#### 3.1.4.33.2.2 **GetDisplayGroupsForConsumerResponse**

The result data for the **GetDisplayGroupsForConsumer** WSDL operation.

```
<xs:element name="GetDisplayGroupsForConsumerResponse">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="GetDisplayGroupsForConsumerResult" nillable="true"
      xmlns:q76="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q76:ArrayOfDisplayGroupInfo"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetDisplayGroupsForConsumerResult:** Information about all search scope display groups for the given search scope consumer name. MUST be an **ArrayOfDisplayGroupInfo** data type as specified in section [2.2.4.3](#).

### 3.1.4.33.3 Complex Types

None.

### 3.1.4.33.4 Simple Types

None.

### 3.1.4.33.5 Attributes

None.

### 3.1.4.33.6 Groups

None.

### 3.1.4.33.7 Attribute Groups

None.

### 3.1.4.34 GetDisplayGroupsInfo

This operation is used by the protocol client to retrieve information from the protocol server about all search scope display groups.

```

<wsdl:operation name="GetDisplayGroupsInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetDisplayGroupsInfo\\_OutputMessage](#) response message, as follows:



- On success, the protocol server MUST return the information for all search scope display groups in an **ArrayOfDisplayGroupInfo** data type as specified in section [2.2.4.3](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.34.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.34.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsInfo\_InputMessage**

The request WSDL message for the **GetDisplayGroupsInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsInfo
```

The SOAP body contains the **GetDisplayGroupsInfo** element.

#### 3.1.4.34.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetDisplayGroupsInfo\_OutputMessage**

The response WSDL message for the **GetDisplayGroupsInfo** WSDL operation.

The SOAP body contains the **GetDisplayGroupsInfoResponse** element.

### 3.1.4.34.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.34.2.1 GetDisplayGroupsInfo

The input data for the **GetDisplayGroupsInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupsInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.34.2.2 GetDisplayGroupsInfoResponse

The result data for the **GetDisplayGroupsInfo** WSDL operation.

```
<xs:element name="GetDisplayGroupsInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetDisplayGroupsInfoResult" nillable="true"
        xmlns:q75="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q75:ArrayOfDisplayGroupInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetDisplayGroupsInfoResult:** An array of **DisplayGroupInfo** data type as specified in section [2.2.4.18](#). Each **DisplayGroupInfo** MUST represent a search scope display group. MUST be an **ArrayOfDisplayGroupInfo** data type as specified in section [2.2.4.3](#).

### 3.1.4.34.3 Complex Types

None.

### 3.1.4.34.4 Simple Types

None.

### 3.1.4.34.5 Attributes

None.

### 3.1.4.34.6 Groups

None.

### 3.1.4.34.7 Attribute Groups

None.

### 3.1.4.35 GetLastLocationConfigurationUpdate

This operation is used by the protocol client to retrieve the version information of the last update to the location configuration for the federated location.

```
<wsdl:operation name="GetLastLocationConfigurationUpdate">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationCo
nfigurationUpdate"
    message="tns:ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_I
nputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationCo
nfigurationUpdateResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_O
utputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetLastLocationConfigurationUpdate\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetLastLocationConfigurationUpdate\\_OutputMessage](#) response message, as follows.

- The protocol client MUST specify the integer version number of the last update to the location configuration that the protocol client has.

- On success, the protocol server MUST return the integer version number of the last update to the location configuration information for the federated location. Any change to the location configuration information is regarded as an update.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.35.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.35.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetLastLocationConfigurationUpdate\_InputMessage**

The request WSDL message for the **GetLastLocationConfigurationUpdate** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationConfigurationUpdate
```

The SOAP body contains the **GetLastLocationConfigurationUpdate** element.

#### 3.1.4.35.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetLastLocationConfigurationUpdate\_OutputMessage**

The response WSDL message for the **GetLastLocationConfigurationUpdate** WSDL operation.

The SOAP body contains the **GetLastLocationConfigurationUpdateResponse** element.

### 3.1.4.35.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.35.2.1 GetLastLocationConfigurationUpdate

The input data for the **GetLastLocationConfigurationUpdate** WSDL operation.

```
<xs:element name="GetLastLocationConfigurationUpdate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="oldUpdateStamp" type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**oldUpdateStamp:** Specifies the integer version number of the last update to the location configuration that the protocol client has. MUST be present and greater than 0.

#### 3.1.4.35.2.2 GetLastLocationConfigurationUpdateResponse

The result data for the **GetLastLocationConfigurationUpdate** WSDL operation.

```

<xs:element name="GetLastLocationConfigurationUpdateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLastLocationConfigurationUpdateResult"
type="xs:long"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLastLocationConfigurationUpdateResult:** The integer version number of the last update to the location configuration on the protocol server. MUST be present and greater than 0.

### 3.1.4.35.3 Complex Types

None.

### 3.1.4.35.4 Simple Types

None.

### 3.1.4.35.5 Attributes

None.

### 3.1.4.35.6 Groups

None.

### 3.1.4.35.7 Attribute Groups

None.

## 3.1.4.36 GetLocationConfigurations

This operation is used by the protocol client to retrieve information about the configurations of all the federated locations available in the search application,

```

<wsdl:operation name="GetLocationConfigurations">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfig
urations"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_InputMessa
ge"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfig
urationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_OutputMessa
ge"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetLocationConfigurations\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetLocationConfigurations\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST retrieve and return a list of configuration properties of the federated locations available in the search application in an **ArrayOfLocationConfiguration** data type as specified in section [3.1.4.36.3.1](#).
- On success, the protocol server MUST also return the version number of the last update to the location configuration properties.
- On success, the protocol server MUST also return whether the server is configured to use crawler's proxy server to perform searches for federated locations.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.36.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.36.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetLocationConfigurations\_InputMessage**

The request WSDL message for the **GetLocationConfigurations** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigurations
```

The SOAP body contains the **GetLocationConfigurations** element.

#### 3.1.4.36.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetLocationConfigurations\_OutputMessage**

The response WSDL message for the **GetLocationConfigurations** WSDL operation.

The SOAP body contains the **GetLocationConfigurationsResponse** element.

### 3.1.4.36.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.36.2.1 GetLocationConfigurations

The input data for the **GetLocationConfigurations** WSDL operation.

```
<xs:element name="GetLocationConfigurations">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.36.2.2 GetLocationConfigurationsResponse

The result data for the **GetLocationConfigurations** WSDL operation.

```

<xs:element name="GetLocationConfigurationsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLocationConfigurationsResult" nillable="true"
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q5:ArrayOfLocationConfiguration"/>
      <xs:element minOccurs="0" name="lastUpdate" type="xs:long"/>
      <xs:element minOccurs="0" name="useCrawlProxy" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLocationConfigurationsResult:** A list of configuration properties of the federated locations available on the protocol server. MUST be an **ArrayOfLocationConfiguration** data type as specified in section [3.1.4.36.3.1](#).

**lastUpdate:** The version number for the last update to the configuration properties of the federated locations.

**useCrawlProxy:** This indicates whether the protocol server uses crawler's proxy server to search federated locations. If it is true, crawler's proxy server is used to search federated locations, otherwise crawler's proxy server is not used. This element MUST be present.

### 3.1.4.36.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.36.3.1 ArrayOfLocationConfiguration

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ArrayOfLocationConfiguration** complex type contains information about a collection of configuration properties.

```

<xs:complexType name="ArrayOfLocationConfiguration">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="LocationConfiguration"
nillable="true" type="tns:LocationConfiguration"/>
  </xs:sequence>
</xs:complexType>

```

**LocationConfiguration:** The **LocationConfiguration** element contains information about the configuration properties of a federated location. Each **LocationConfiguration** MUST be a **LocationConfiguration** data type as specified in section [2.2.4.21](#).

#### 3.1.4.36.4 Simple Types

None.

#### 3.1.4.36.5 Attributes

None.

### 3.1.4.36.6 Groups

None.

### 3.1.4.36.7 Attribute Groups

None.

### 3.1.4.37 GetLocationDescription

This operation is used by the protocol client to retrieve the description XML of a federated location in the search application.

```
<wsdl:operation name="GetLocationDescription">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescription"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationDescription_InputMessage"
/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescriptionResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationDescription_OutputMessage"
/>
</wsdl:operation>
```

This protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetLocationDescription\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetLocationDescription\\_OutputMessage](#) response message, as follows.

- The protocol client **MUST** specify the unique identifier of the federated location.
- On receipt, if the input unique identifier of the federated location is -1, the server **MUST** return null.
- On receipt, if the location doesn't have a description XML, the protocol server **MUST** return null.
- On success, the protocol server **MUST** return the description XML of the federated location.
- On error, the protocol server **MUST** return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.37.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.37.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetLocationDescription\_InputMessage**

The request WSDL message for the **GetLocationDescription** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescription>

The SOAP body contains the **GetLocationDescription** element.

#### 3.1.4.37.1.2

### **ISearchSiteAdministrationServiceApplication\_GetLocationDescription\_OutputMessage**

The response WSDL message for the **GetLocationDescription** WSDL operation.

The SOAP body contains the **GetLocationDescriptionResponse** element.

#### 3.1.4.37.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.37.2.1 GetLocationDescription

The input data for the **GetLocationDescription** WSDL operation.

```
<xs:element name="GetLocationDescription">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**id:** Specifies a unique identifier for the federated location. MUST be present.

##### 3.1.4.37.2.2 GetLocationDescriptionResponse

The result data for the **GetLocationDescription** WSDL operation.

```
<xs:element name="GetLocationDescriptionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLocationDescriptionResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLocationDescriptionResult:** The XML of the federated location configuration details. The XML is only parsed by the protocol client so its schema is decided by the protocol client.

#### 3.1.4.37.3 Complex Types

None.

#### 3.1.4.37.4 Simple Types

None.



### 3.1.4.37.5 Attributes

None.

### 3.1.4.37.6 Groups

None.

### 3.1.4.37.7 Attribute Groups

None.

### 3.1.4.38 GetLocationVisualizations

This operation is used by the protocol client to retrieve all available display information for the federated location of the search application.

```
<wsdl:operation name="GetLocationVisualizations">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisualizations"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisualizationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetLocationVisualizations\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetLocationVisualizations\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the federated location for which the display information needs to be retrieved.
- If an invalid unique identifier of the federated location is given as the input parameter, the protocol server MUST return an empty list of display information in an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#).
- On success, the protocol server MUST return all the display information of the given location in an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.38.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.38.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetLocationVisualizations\_InputMessage**

The request WSDL message for the **GetLocationVisualizations** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisualizations
```

The SOAP body contains the **GetLocationVisualizations** element.

### 3.1.4.38.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetLocationVisualizations\_OutputMessage**

The response WSDL message for the **GetLocationVisualizations** WSDL operation.

The SOAP body contains the **GetLocationVisualizationsResponse** element.

### 3.1.4.38.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.38.2.1 GetLocationVisualizations

The input data for the **GetLocationVisualizations** WSDL operation.

```
<xs:element name="GetLocationVisualizations">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**id:** Specifies a unique identifier of the federated location.

#### 3.1.4.38.2.2 GetLocationVisualizationsResponse

The result data for the **GetLocationVisualizations** WSDL operation.

```
<xs:element name="GetLocationVisualizationsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetLocationVisualizationsResult" nillable="true"
        xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q4:ArrayOfKeyValueOfstringVisualizationy6h3NzC8"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetLocationVisualizationsResult:** An array of display information of the given federated location. MUST be an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#).

### 3.1.4.38.3 Complex Types

None.

### 3.1.4.38.4 Simple Types

None.

### 3.1.4.38.5 Attributes

None.

### 3.1.4.38.6 Groups

None.

### 3.1.4.38.7 Attribute Groups

None.

## 3.1.4.39 GetManagedProperties

This operation is used by the protocol client to retrieve the information of the managed properties.

```
<wsdl:operation name="GetManagedProperties">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedProperties"
    message="tns:ISearchSiteAdministrationServiceApplication_GetManagedProperties_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedPropertiesResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetManagedProperties_OutputMessage"/>
</wsdl:operation>
```

This protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetManagedProperties\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetManagedProperties\\_OutputMessage](#) response message, as follows.

- On success, the protocol server MUST return the information of the managed properties in an **ArrayOfManagedPropertyInfo** data type as specified in section [3.1.4.39.3.1](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.39.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.39.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetManagedProperties\_InputMessage**

The request WSDL message for the **GetManagedProperties** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedProperties
```

The SOAP body contains the **GetManagedProperties** element.

### 3.1.4.39.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetManagedProperties\_OutputMessage**

The response WSDL message for the **GetManagedProperties** WSDL operation.

The SOAP body contains the **GetManagedPropertiesResponse** element.

## 3.1.4.39.2 Elements

The following XML Schema element definitions are specific to this operation.

### 3.1.4.39.2.1 GetManagedProperties

The input data for the **GetManagedProperties** WSDL operation.

```
<xs:element name="GetManagedProperties">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.39.2.2 GetManagedPropertiesResponse

The result data for the **GetManagedProperties** WSDL operation.

```
<xs:element name="GetManagedPropertiesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetManagedPropertiesResult" nillable="true"
        xmlns:q66="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration"
        type="q66:ArrayOfManagedPropertyInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetManagedPropertiesResult:** A list of managed property information. MUST be an **ArrayOfManagedPropertyInfo** data type as specified in section [3.1.4.39.3.1](#).

### 3.1.4.39.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.39.3.1 ArrayOfManagedPropertyInfo

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration

The **ArrayOfManagedPropertyInfo** complex type contains the information about the managed properties.

```
<xs:complexType name="ArrayOfManagedPropertyInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ManagedPropertyInfo"
      nillable="true" type="tns:ManagedPropertyInfo"/>
  </xs:sequence>
</xs:complexType>
```

**ManagedPropertyInfo:** The **ManagedPropertyInfo** element contains the information of a managed property. Each **ManagedPropertyInfo** element MUST be a **ManagedPropertyInfo** type as specified in section [2.2.4.22](#).

#### 3.1.4.39.4 Simple Types

None.

#### 3.1.4.39.5 Attributes

None.

#### 3.1.4.39.6 Groups

None.

#### 3.1.4.39.7 Attribute Groups

None.

#### 3.1.4.40 GetPropertyQueryRuleCount

This operation is used by the protocol client to retrieve information about the number of documents matching a managed property restriction (1) in the protocol server.

```
<wsdl:operation name="GetPropertyQueryRuleCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryRuleCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryRuleCountResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_OutputMessage"/>
</wsdl:operation>
```

</wsdl:operation>

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetPropertyQueryRuleCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetPropertyQueryRuleCount\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name and the value of the managed property for which a count of the matching items is being requested.
- On receipt, the protocol server interprets name and value of the managed property to find the number of documents matching the property restriction (1).
- On success, the protocol server MUST include the number of documents matching the managed property restriction (1) in the response.
- The protocol server MUST return a **FaultException<ExceptionDetail>** in the following conditions:
  - The specified name of the managed property does not match name of any managed property defined in the protocol server.
  - The type of the specified value does not match the type of the specified managed property in the protocol server. The type of the value MUST be a value from the following table:

Type	Description
System.String	Property of type String
System.Int64	Property of type Integer
System.Double	Property of type Double
System.DateTime	Property of type DateTime
System.Boolean	Property of type Boolean
System.Byte[]	Property of type byte array

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message

### 3.1.4.40.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.40.1.1

### **ISearchSiteAdministrationServiceApplication\_GetPropertyQueryRuleCount\_Input Message**

The request WSDL message for the **GetPropertyQueryRuleCount** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryRuleCount>

The SOAP body contains the **GetPropertyQueryRuleCount** element.

#### 3.1.4.40.1.2

### **ISearchSiteAdministrationServiceApplication\_GetPropertyQueryRuleCount\_OutputMessage**

The response WSDL message for the **GetPropertyQueryRuleCount** WSDL operation.

The SOAP body contains the **GetPropertyQueryRuleCountResponse** element.

#### 3.1.4.40.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.40.2.1 GetPropertyQueryRuleCount

The input data for the **GetPropertyQueryRuleCount** WSDL operation.

```
<xs:element name="GetPropertyQueryRuleCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="propertyName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**propertyName:** Name of the managed property.

**propertyValue:** Value of the managed property.

##### 3.1.4.40.2.2 GetPropertyQueryRuleCountResponse

The result data for the **GetPropertyQueryRuleCount** WSDL operation.

```
<xs:element name="GetPropertyQueryRuleCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetPropertyQueryRuleCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPropertyQueryRuleCountResult:** This element specifies the number of documents matching the managed property restriction (1) with the specified name and the specified value. **MUST** be greater than or equal to 0.

#### 3.1.4.40.3 Complex Types

None.

#### 3.1.4.40.4 Simple Types

None.

### 3.1.4.40.5 Attributes

None.

### 3.1.4.40.6 Groups

None.

### 3.1.4.40.7 Attribute Groups

None.

### 3.1.4.41 GetProxyInfo

This operation is used by the protocol client to retrieve HTTP proxy server information.

```
<wsdl:operation name="GetProxyInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetProxyInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetProxyInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetProxyInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetProxyInfo\\_OutputMessage](#) response message, as follows.

- On success, the protocol server MUST return the proxy server information in a **SearchProxyInfo** data type as specified in section [3.1.4.41.3.1](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.41.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.41.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetProxyInfo\_InputMessage**

The request WSDL message for the **GetProxyInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfo
```

The SOAP body contains the **GetProxyInfo** element.



### 3.1.4.41.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetProxyInfo\_OutputMessage**

The response WSDL message for the **GetProxyInfo** WSDL operation.

The SOAP body contains the **GetProxyInfoResponse** element.

### 3.1.4.41.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.41.2.1 GetProxyInfo

The input data for the **GetProxyInfo** WSDL operation.

```
<xs:element name="GetProxyInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.41.2.2 GetProxyInfoResponse

The result data for the **GetProxyInfo** WSDL operation.

```
<xs:element name="GetProxyInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetProxyInfoResult" nillable="true"
        xmlns:q6="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08"
        type="q6:SearchProxyInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetProxyInfoResult:** Information about the proxy server that the protocol server is using. MUST be a **SearchProxyInfo** data type as specified in section [3.1.4.41.3.1](#).

### 3.1.4.41.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.41.3.1 SearchProxyInfo

**Namespace:** <http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08>

The **SearchProxyInfo** complex type contains the proxy configuration information of the search service application.

```
<xs:complexType name="SearchProxyInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="Address" nillable="true" type="xs:anyURI"/>
  </xs:sequence>
</xs:complexType>
```

```

    <xs:element minOccurs="0" name="BypassList" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q1:ArrayOfstring"/>
    <xs:element minOccurs="0" name="BypassProxyOnLocal" type="xs:boolean"/>
    <xs:element minOccurs="0" name="UseCrawlProxyForFederation" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>

```

**Address:** Specifies a URI of the proxy server. For specification of the URIs see [\[RFC2396\]](#).

**BypassList:** Specifies a list of addresses for which the proxy server will be bypassed. MUST be an **ArrayOfstring** data type as specified in section [2.2.4.12](#).

**BypassProxyOnLocal:** Specifies whether to bypass the proxy server for local addresses. A value of "true" specifies that the server MUST bypass proxy server for local addresses; a value of "false" specifies the server MUST NOT bypass proxy server for local addresses.

**UseCrawlProxyForFederation:** Specifies whether to use the crawler's proxy server for federated search. A value of "true" specifies that the crawl proxy server MUST be used for federated search; a value of "false" specifies the crawler's proxy server MUST NOT be used for federated search.

### 3.1.4.41.4 Simple Types

None.

### 3.1.4.41.5 Attributes

None.

### 3.1.4.41.6 Groups

None.

### 3.1.4.41.7 Attribute Groups

None.

### 3.1.4.42 GetRuleInfo

This operation is used by the protocol client to retrieve information from the protocol server about a search scope rule given its identifier.

```

<wsdl:operation name="GetRuleInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetRuleInfo_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetRuleInfo_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetRuleInfo\\_InputMessage](#) request message and the protocol server responds with an

[ISearchSiteAdministrationServiceApplication\\_GetRuleInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope rule for which the information MUST be returned.
- On receipt, the protocol server uses the unique identifier to find the search scope rule and MUST return the information for the search scope rule in a **RuleInfo** data type as specified in section [2.2.4.23](#).
- If the protocol server is unable to find a search scope rule corresponding to the unique identifier passed in by the protocol client then it MUST set **RuleInfo.IsDeleted** to true. Otherwise **RuleInfo.IsDeleted** MUST be set to "false".
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.42.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.42.1.1

##### **ISearchSiteAdministrationServiceApplication\_GetRuleInfo\_InputMessage**

The request WSDL message for the **GetRuleInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfo
```

The SOAP body contains the **GetRuleInfo** element.

#### 3.1.4.42.1.2

##### **ISearchSiteAdministrationServiceApplication\_GetRuleInfo\_OutputMessage**

The response WSDL message for the **GetRuleInfo** WSDL operation.

The SOAP body contains the **GetRuleInfoResponse** element.

### 3.1.4.42.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.42.2.1 GetRuleInfo

The input data for the **GetRuleInfo** WSDL operation.

```
<xs:element name="GetRuleInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ruleId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ruleId:** Specifies a unique identifier of the search scope rule.

### 3.1.4.42.2.2 GetRuleInfoResponse

The result data for the **GetRuleInfo** WSDL operation.

```
<xs:element name="GetRuleInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetRuleInfoResult" nillable="true"
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q10:RuleInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetRuleInfoResult:** Information about the search scope rule. MUST be a **RuleInfo** data type as specified in section [2.2.4.23](#).

If **GetRuleInfoResult.IsDeleted** is true then all other child elements MUST be ignored by the client.

### 3.1.4.42.3 Complex Types

None.

### 3.1.4.42.4 Simple Types

None.

### 3.1.4.42.5 Attributes

None.

### 3.1.4.42.6 Groups

None.

### 3.1.4.42.7 Attribute Groups

None.

### 3.1.4.43 GetRulesCount

This operation is used by the protocol client to retrieve information about the number of search scope rules defined for a search scope in the protocol server.

```
<wsdl:operation name="GetRulesCount">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetRulesCount_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCountResp
onse" message="tns:ISearchSiteAdministrationServiceApplication_GetRulesCount_OutputMessage"/>
```

</wsdl:operation>

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetRulesCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetRulesCount\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope for which the number of the search scope rules MUST be included in the response from the protocol server.
- On receipt, the protocol server uses the unique identifier to find the number of search scope rules defined for the search scope with the unique identifier.
- The protocol server MUST return **statusCode** set to 1 if the unique identifier of the search scope does not match the identifier of any search scope defined in the protocol server.
- On any error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.43.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.43.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetRulesCount\_InputMessage**

The request WSDL message for the **GetRulesCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCount
```

The SOAP body contains the **GetRulesCount** element.

#### 3.1.4.43.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetRulesCount\_OutputMessage**

The response WSDL message for the **GetRulesCount** WSDL operation.

The SOAP body contains the **GetRulesCountResponse** element.

### 3.1.4.43.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.43.2.1 GetRulesCount

The input data for the **GetRulesCount** WSDL operation.

```
<xs:element name="GetRulesCount">  
  <xs:complexType>  
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**scopeId:** The unique identifier of the search scope.

### 3.1.4.43.2.2 GetRulesCountResponse

The result data for the **GetRulesCount** WSDL operation.

```

<xs:element name="GetRulesCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetRulesCountResult" type="xs:int"/>
      <xs:element minOccurs="0" name="statusCode" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetRulesCountResult:** number of search scope rules defined for the search scope with the specified identifier. MUST be equal to -1 if the value of **StatusCode** is 1. Otherwise, MUST specify the number of search scope rules defined for the search scope with the specified identifier.

**statusCode:** An integer that MUST specify the status of the request. MUST be a value from the following table:

Value	Description
0	Successful execution.
1	Search scope with the specified identifier was not found.

### 3.1.4.43.3 Complex Types

None.

### 3.1.4.43.4 Simple Types

None.

### 3.1.4.43.5 Attributes

None.

### 3.1.4.43.6 Groups

None.

### 3.1.4.43.7 Attribute Groups

None.

### 3.1.4.44 GetRulesInfo

This operation is used by the protocol client to retrieve all the search scope rules defined for a search scope by the protocol server.

```
<wsdl:operation name="GetRulesInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetRulesInfo_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfoRespo
nse" message="tns:ISearchSiteAdministrationServiceApplication_GetRulesInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetRulesInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetRulesInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope for which the information MUST be returned.
- On receipt, the protocol server interprets the unique identifier to find the search scope and MUST return the search scope rules defined for the search scope in an **ArrayOfRuleInfo** data type as specified in section [3.1.4.44.3.1](#). If the protocol server is unable to find the search scope corresponding to the unique identifier passed in by the protocol client, then it MUST send **statusCode** of 1.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.44.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.44.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetRulesInfo\_InputMessage**

The request WSDL message for the **GetRulesInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfo
```

The SOAP body contains the **GetRulesInfo** element.

##### 3.1.4.44.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetRulesInfo\_OutputMessage**

The response WSDL message for the **GetRulesInfo** WSDL operation.

The SOAP body contains the **GetRulesInfoResponse** element.

### 3.1.4.44.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.44.2.1 GetRulesInfo

The input data for the **GetRulesInfo** WSDL operation.

```
<xs:element name="GetRulesInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeId:** Specifies a unique identifier of the search scope.

#### 3.1.4.44.2.2 GetRulesInfoResponse

The result data for the **GetRulesInfo** WSDL operation.

```
<xs:element name="GetRulesInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetRulesInfoResult" nillable="true"
        xmlns:q82="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q82:ArrayOfRuleInfo"/>
      <xs:element minOccurs="0" name="statusCode" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetRulesInfoResult:** An array of **RuleInfo** data type as specified in section [2.2.4.23](#). Each **RuleInfo** MUST represent a search scope rule defined for the search scope. MUST be an **ArrayOfRuleInfo** data type as specified in section [3.1.4.44.3.1](#).

**statusCode:** An integer that MUST specify the status of the request. MUST be a value from the following table:

Value	Description
0	Successful execution.
1	Search scope with the specified identifier was not found.

### 3.1.4.44.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.44.3.1 ArrayOfRuleInfo

**Namespace:**

http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration



The **ArrayOfRuleInfo** complex type contains information about a collection of search scope rules.

```
<xs:complexType name="ArrayOfRuleInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="RuleInfo" nillable="true"
      type="tns:RuleInfo"/>
  </xs:sequence>
</xs:complexType>
```

**RuleInfo:** The **RuleInfo** element contains information about a search scope rule. Each **RuleInfo** element MUST be a **RuleInfo** data type as specified in section [2.2.4.23](#).

#### 3.1.4.44.4 Simple Types

None.

#### 3.1.4.44.5 Attributes

None.

#### 3.1.4.44.6 Groups

None.

#### 3.1.4.44.7 Attribute Groups

None.

#### 3.1.4.45 GetScopeIDFromName

This operation is used by the protocol client to retrieve the identifier for search scope when given the name of the search scope and the name of the search scope consumer that owns the search scope.

```
<wsdl:operation name="GetScopeIDFromName">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromName"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromNameResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopeIDFromName\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopeIDFromName\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the search scope consumer name and the search scope name for which information MUST be returned.

- On receipt, the protocol server finds the search scope consumer and the search scope by **consumerName** and **name** elements of the request, and MUST return the identifier for the search scope.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.45.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.45.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopeIDFromName\_InputMessage**

The request WSDL message for the **GetScopeIDFromName** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromName
```

The SOAP body contains the **GetScopeIDFromName** element.

#### 3.1.4.45.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopeIDFromName\_OutputMessage**

The response WSDL message for the **GetScopeIDFromName** WSDL operation.

The SOAP body contains the **GetScopeIDFromNameResponse** element.

### 3.1.4.45.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.45.2.1 GetScopeIDFromName

The input data for the **GetScopeIDFromName** WSDL operation.

```
<xs:element name="GetScopeIDFromName">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="name" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** Specifies the name of the search scope consumer that owns the search scope. This value MUST NOT be NULL. The length of this string MUST be less than or equal to 60.

**name:** Specifies the name of the search scope. This value MUST NOT be NULL. The length of this string MUST be greater than or equal to 1 and less than or equal to 60.

### 3.1.4.45.2.2 GetScopeIDFromNameResponse

The result data for the **GetScopeIDFromName** WSDL operation.

```
<xs:element name="GetScopeIDFromNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopeIDFromNameResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopeIDFromNameResult:** The identifier for the search scope. MUST be positive.

### 3.1.4.45.3 Complex Types

None.

### 3.1.4.45.4 Simple Types

None.

### 3.1.4.45.5 Attributes

None.

### 3.1.4.45.6 Groups

None.

### 3.1.4.45.7 Attribute Groups

None.

### 3.1.4.46 GetScopeInfo

This operation is used by the protocol client to retrieve information about a protocol server's search scope.

```
<wsdl:operation name="GetScopeInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopeInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopeInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopeInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopeInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope for which the information MUST be returned.
- On receipt, the protocol server interprets the unique identifier to find the search scope and returns information for the search scope in a **ScopeInfo** data type as specified in section [2.2.4.24](#).
- The protocol server MUST set **GetScopeInfoResult.isDeleted** to **true** if the unique identifier of the search scope does not match the identifier of any search scope defined in the protocol server.
- On any other error message the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.46.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.46.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopeInfo\_InputMessage**

The request WSDL message for the **GetScopeInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfo
```

The SOAP body contains the **GetScopeInfo** element.

#### 3.1.4.46.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopeInfo\_OutputMessage**

The response WSDL message for the **GetScopeInfo** WSDL operation.

The SOAP body contains the **GetScopeInfoResponse** element.

### 3.1.4.46.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.46.2.1 **GetScopeInfo**

The input data for the **GetScopeInfo** WSDL operation.

```
<xs:element name="GetScopeInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeId:** Specifies a unique identifier of the search scope.

### 3.1.4.46.2.2 GetScopeInfoResponse

The result data for the **GetScopeInfo** WSDL operation.

```
<xs:element name="GetScopeInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopeInfoResult" nillable="true"
        xmlns:q79="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration"
        type="q79:ScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopeInfoResult:** Information about the search scope. MUST be a **ScopeInfo** data type as specified in section [2.2.4.24](#).

The value of **GetScopeInfoResult.siteURL** child element MUST be NULL.

If **GetScopeInfoResult.isDeleted** is **true**, the value of all the other child elements of **GetScopeInfoResult** whose type is string MUST be equal to an empty string. Otherwise, if **GetScopeInfoResult.IsDeleted** is **false**, the value of all the other child elements MUST contain information about the search scope as it is defined in the protocol server.

### 3.1.4.46.3 Complex Types

None.

### 3.1.4.46.4 Simple Types

None.

### 3.1.4.46.5 Attributes

None.

### 3.1.4.46.6 Groups

None.

### 3.1.4.46.7 Attribute Groups

None.

### 3.1.4.47 GetScopeRowCount

This operation is used by the protocol client to retrieve information about the number of documents that match a search scope in the protocol server.

```
<wsdl:operation name="GetScopeRowCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopeRowCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCountR
```

```
response"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeRowCount_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopeRowCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopeRowCount\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name of the search scope and the unique identifier of the site collection that is defined as a consumer of the search scope.
- On receipt, the protocol server finds the number of documents matching the search scope for the specified site collection. If the search scope is a shared search scope then the protocol server MUST ensure that the site collection with the specified identifier is a valid consumer of the shared search scope. If the search scope is a local search scope then the protocol server MUST ensure that the specified site collection identifier is equal to the identifier of the site collection that created the search scope.
- The protocol server MUST return a **FaultException<ExceptionDetail>** error message in the following conditions:
  - The name of the search scope does not match the name of any search scope defined in the protocol server.
  - For a shared search scope the site collection with the specified identifier is not a valid consumer of the search scope.
  - For a local search scope the site collection identifier is not equal to the identifier of the site collection that created the search scope.
  - On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.47.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.47.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopeRowCount\_InputMessage**

The request WSDL message for the **GetScopeRowCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCount
```

The SOAP body contains the **GetScopeRowCount** element.

#### 3.1.4.47.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopeRowCount\_OutputMessage**

The response WSDL message for the **GetScopeRowCount** WSDL operation.

The SOAP body contains the **GetScopeRowCountResponse** element.

### 3.1.4.47.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.47.2.1 GetScopeRowCount

The input data for the **GetScopeRowCount** WSDL operation.

```
<xs:element name="GetScopeRowCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeName" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="consumerId"
        xmlns:q67="http://schemas.microsoft.com/2003/10/Serialization/" type="q67:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeName:** Name of a search scope.

**consumerId:** Unique identifier of a site collection that is defined as a consumer of the search scope.

#### 3.1.4.47.2.2 GetScopeRowCountResponse

The result data for the **GetScopeRowCount** WSDL operation.

```
<xs:element name="GetScopeRowCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopeRowCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopeRowCountResult:** This element specifies the number of documents matching the search scope with the specified name for the site collection with the specified identifier. MUST be greater than or equal to 0.

### 3.1.4.47.3 Complex Types

None.

### 3.1.4.47.4 Simple Types

None.

### 3.1.4.47.5 Attributes

None.

### 3.1.4.47.6 Groups

None.

### 3.1.4.47.7 Attribute Groups

None.

### 3.1.4.48 GetScopesCount

This operation is used by the protocol client to retrieve the count of all search scopes defined in the search application.

```
<wsdl:operation name="GetScopesCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCountRes
    ponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesCount_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopesCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopesCount\\_OutputMessage](#) response message, as follows:

- On receipt the protocol server checks if the caller has the right privileges to retrieve the number of search scopes in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the count of search scopes defined in the search application.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.48.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.48.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopesCount\_InputMessage**

The request WSDL message for the **GetScopesCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCount
```

The SOAP body contains the **GetScopesCount** element.



### 3.1.4.48.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopesCount\_OutputMessage**

The response WSDL message for the **GetScopesCount** WSDL operation.

The SOAP body contains the **GetScopesCountResponse** element.

### 3.1.4.48.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.48.2.1 **GetScopesCount**

The input data for the **GetScopesCount** WSDL operation.

```
<xs:element name="GetScopesCount">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.48.2.2 **GetScopesCountResponse**

The result data for the **GetScopesCount** WSDL operation.

```
<xs:element name="GetScopesCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopesCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopesCountResult:** Specifies the number of search scopes defined in the search application.

### 3.1.4.48.3 Complex Types

None.

### 3.1.4.48.4 Simple Types

None.

### 3.1.4.48.5 Attributes

None.

### 3.1.4.48.6 Groups

None.

### 3.1.4.48.7 Attribute Groups

None.

### 3.1.4.49 GetScopesForConsumer

This operation is used by the protocol client to retrieve information about all the search scopes associated with a given search scope consumer.

```
<wsdl:operation name="GetScopesForConsumer">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumer"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumerResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopesForConsumer\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopesForConsumer\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the name that uniquely identifies the search scope consumer whose search scopes are to be returned.
- The protocol server MUST return in the **GetScopesForConsumerResult** element of the response message a list of search scope definitions for the search scopes associated with the specified search scope consumer.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.49.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.49.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopesForConsumer\_InputMessage**

The request WSDL message for the **GetScopesForConsumer** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumer
```

The SOAP body contains the **GetScopesForConsumer** element.

### 3.1.4.49.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopesForConsumer\_OutputMessage**

The response WSDL message for the **GetScopesForConsumer** WSDL operation.

The SOAP body contains the **GetScopesForConsumerResponse** element.

### 3.1.4.49.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.49.2.1 **GetScopesForConsumer**

The input data for the **GetScopesForConsumer** WSDL operation.

```
<xs:element name="GetScopesForConsumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The name that uniquely identifies the search scope consumer. This value MUST NOT be NULL and MUST be a string with length less than or equal to 60 characters.

#### 3.1.4.49.2.2 **GetScopesForConsumerResponse**

The result data for the **GetScopesForConsumer** WSDL operation.

```
<xs:element name="GetScopesForConsumerResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopesForConsumerResult" nillable="true"
        xmlns:q73="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration"
        type="q73:ArrayOfScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopesForConsumerResult:** An array of the search scopes that belong to the specified search scope consumer. MUST be of **ArrayOfScopeInfo** data type as specified in section [2.2.4.11](#).

### 3.1.4.49.3 Complex Types

None.

### 3.1.4.49.4 Simple Types

None.

### 3.1.4.49.5 Attributes

None.

### 3.1.4.49.6 Groups

None.

### 3.1.4.49.7 Attribute Groups

None.

### 3.1.4.50 GetScopesInfo

This operation is used by the protocol client to retrieve information about all the search scopes defined in the protocol server.

```
<wsdl:operation name="GetScopesInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopesInfo\\_InputMessage](#) request message, and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopesInfo\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return in the response message an array of **ScopeInfo** data type as specified in section [2.2.4.24](#) . Each **ScopeInfo** data type MUST represent a search scope defined in the protocol server.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.50.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.50.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopesInfo\_InputMessage**

The request WSDL message for the **GetScopesInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfo
```

The SOAP body contains the **GetScopesInfo** element.

### 3.1.4.50.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopesInfo\_OutputMessage**

The response WSDL message for the **GetScopesInfo** WSDL operation.

The SOAP body contains the **GetScopesInfoResponse** element.

### 3.1.4.50.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.50.2.1 **GetScopesInfo**

The input data for the **GetScopesInfo** WSDL operation.

```
<xs:element name="GetScopesInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.50.2.2 **GetScopesInfoResponse**

The result data for the **GetScopesInfo** WSDL operation.

```
<xs:element name="GetScopesInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopesInfoResult" nillable="true"
        xmlns:q72="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q72:ArrayOfScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopesInfoResult:** An array of **ScopeInfo** data type as specified in section [2.2.4.24](#). Each **ScopeInfo** MUST represent a search scope defined in the protocol server. MUST be an **ArrayOfScopeInfo** data type as specified in section [2.2.4.11](#).

### 3.1.4.50.3 Complex Types

None.

### 3.1.4.50.4 Simple Types

None.

### 3.1.4.50.5 Attributes

None.

### 3.1.4.50.6 Groups

None.

### 3.1.4.50.7 Attribute Groups

None.

### 3.1.4.51 GetScopesManagerInfo

This operation is used by the protocol client to retrieve information about the search scopes system in the search application.

```
<wsdl:operation name="GetScopesManagerInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetScopesManagerInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetScopesManagerInfo\\_OutputMessage](#) response message.

- On receipt, the protocol server returns details of the search scopes system in a **ScopesManagerInfo** data type as specified in section [2.2.4.25](#).
- On error, the protocol server MUST return **FaultException<ExceptionDetail>** error message.

#### 3.1.4.51.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.51.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetScopesManagerInfo\_InputMessage**

The request WSDL message for the **GetScopesManagerInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerInfo
```

The SOAP body contains the **GetScopesManagerInfo** element.

##### 3.1.4.51.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetScopesManagerInfo\_OutputMessage**

The response WSDL message for the **GetScopesManagerInfo** WSDL operation.

The SOAP body contains the **GetScopesManagerInfoResponse** element.

### 3.1.4.51.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.51.2.1 GetScopesManagerInfo

The input data for the **GetScopesManagerInfo** WSDL operation.

```
<xs:element name="GetScopesManagerInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.51.2.2 GetScopesManagerInfoResponse

The result data for the **GetScopesManagerInfo** WSDL operation.

```
<xs:element name="GetScopesManagerInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetScopesManagerInfoResult" nillable="true"
xmlns:q69="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q69:ScopesManagerInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetScopesManagerInfoResult:** Details about the search scopes system. MUST be a **ScopesManagerInfo** data type as specified in section [2.2.4.25](#).

### 3.1.4.51.3 Complex Types

None.

### 3.1.4.51.4 Simple Types

None.

### 3.1.4.51.5 Attributes

None.

### 3.1.4.51.6 Groups

None.

### 3.1.4.51.7 Attribute Groups

None.

### 3.1.4.52 GetSearchAlertManagerInfo

This operation is used by the protocol client to retrieve information about the search alert system for the search service application.

```
<wsdl:operation name="GetSearchAlertManagerInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertManagerInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertManagerInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSearchAlertManagerInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSearchAlertManagerInfo\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the information about the search alert system for the search service application in an **AlertManagerInfo** data type as specified in section [3.1.4.52.3.1](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.52.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.52.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSearchAlertManagerInfo\_InputMessage**

The request WSDL message for the **GetSearchAlertManagerInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertManagerInfo
```

The SOAP body contains the **GetSearchAlertManagerInfo** element.

##### 3.1.4.52.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSearchAlertManagerInfo\_OutputMessage**

The response WSDL message for the **GetSearchAlertManagerInfo** WSDL operation.

The SOAP body contains the **GetSearchAlertManagerInfoResponse** element.



### 3.1.4.52.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.52.2.1 GetSearchAlertManagerInfo

The input data for the **GetSearchAlertManagerInfo** WSDL operation.

```
<xs:element name="GetSearchAlertManagerInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.52.2.2 GetSearchAlertManagerInfoResponse

The result data for the **GetSearchAlertManagerInfo** WSDL operation.

```
<xs:element name="GetSearchAlertManagerInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSearchAlertManagerInfoResult" nillable="true"
        xmlns:q9="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08"
        type="q9:AlertManagerInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSearchAlertManagerInfoResult:** Contains the information about the search alert system for the search service application. MUST be of **AlertManagerInfo** data type as specified in section [3.1.4.52.3.1](#).

### 3.1.4.52.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.52.3.1 AlertManagerInfo

**Namespace:** <http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08>

The **AlertManagerInfo** complex type contains the information about the search alert system for a search service application.

```
<xs:complexType name="AlertManagerInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="SearchAlertNotificationFormatVersion" type="xs:int"/>
    <xs:element minOccurs="0" name="SearchAlertNotificationQuota" type="xs:int"/>
    <xs:element minOccurs="0" name="SearchAlertsEnabled" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

**SearchAlertNotificationFormatVersion:** Specifies the version of the search alert notification format. MUST be a zero or a positive integer. Each time the search alert notification format is changed, the protocol server MUST increment it by 1.

**SearchAlertNotificationQuota:** Specifies the upper bound for the number of search alert notifications that are generated. MUST be an integer value greater than 0 and not more than 1000.

**SearchAlertsEnabled:** Specifies if the search alert notifications are enabled for the search service application. If it is true then the notifications are enabled, otherwise they are disabled.

#### 3.1.4.52.4 Simple Types

None.

#### 3.1.4.52.5 Attributes

None.

#### 3.1.4.52.6 Groups

None.

#### 3.1.4.52.7 Attribute Groups

None.

### 3.1.4.53 GetSearchAlertNotificationFormat

This operation is used by the protocol client to retrieve the notification format of the search alert system for the search service application.

```
<wsdl:operation name="GetSearchAlertNotificationFormat">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNotificationFormat"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNotificationFormatResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSearchAlertNotificationFormat\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSearchAlertNotificationFormat\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the notification format of the search alert system for the search service application.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.53.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.53.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSearchAlertNotificationFormat\_InputMessage**

The request WSDL message for the **GetSearchAlertNotificationFormat** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNotificationFormat
```

The SOAP body contains the **GetSearchAlertNotificationFormat** element.

### 3.1.4.53.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSearchAlertNotificationFormat\_OutputMessage**

The response WSDL message for the **GetSearchAlertNotificationFormat** WSDL operation.

The SOAP body contains the **GetSearchAlertNotificationFormatResponse** element.

### 3.1.4.53.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.53.2.1 **GetSearchAlertNotificationFormat**

The input data for the **GetSearchAlertNotificationFormat** WSDL operation.

```
<xs:element name="GetSearchAlertNotificationFormat">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.53.2.2 **GetSearchAlertNotificationFormatResponse**

The result data for the **GetSearchAlertNotificationFormat** WSDL operation.

```
<xs:element name="GetSearchAlertNotificationFormatResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSearchAlertNotificationFormatResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSearchAlertNotificationFormatResult:** Contains the notification format of the search alert system for the search service application. MUST be a string that is a valid XSL Transformation (XSLT).

### 3.1.4.53.3 Complex Types

None.

### 3.1.4.53.4 Simple Types

None.

### 3.1.4.53.5 Attributes

None.

### 3.1.4.53.6 Groups

None.

### 3.1.4.53.7 Attribute Groups

None.

### 3.1.4.54 GetSearchApplicationDisplayName

This operation is used by the protocol client to retrieve the display name of the search service application.

```
<wsdl:operation name="GetSearchApplicationDisplayName">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationDisplayName"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationDisplayNameResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSearchApplicationDisplayName\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSearchApplicationDisplayName\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the display name of the search service application.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.54.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.54.1.1

### **ISearchSiteAdministrationServiceApplication\_GetSearchApplicationDisplayName\_InputMessage**

The request WSDL message for the **GetSearchApplicationDisplayName** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationDisplayName
```

The SOAP body contains the **GetSearchApplicationDisplayName** element.

#### 3.1.4.54.1.2

### **ISearchSiteAdministrationServiceApplication\_GetSearchApplicationDisplayName\_OutputMessage**

The response WSDL message for the **GetSearchApplicationDisplayName** WSDL operation.

The SOAP body contains the **GetSearchApplicationDisplayNameResponse** element.

#### 3.1.4.54.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.54.2.1 GetSearchApplicationDisplayName

The input data for the **GetSearchApplicationDisplayName** WSDL operation.

```
<xs:element name="GetSearchApplicationDisplayName">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

##### 3.1.4.54.2.2 GetSearchApplicationDisplayNameResponse

The result data for the **GetSearchApplicationDisplayName** WSDL operation.

```
<xs:element name="GetSearchApplicationDisplayNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSearchApplicationDisplayNameResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSearchApplicationDisplayNameResult:** The display name of the search service application.

#### 3.1.4.54.3 Complex Types

None.

#### 3.1.4.54.4 Simple Types

None.

#### 3.1.4.54.5 Attributes

None.

#### 3.1.4.54.6 Groups

None.

#### 3.1.4.54.7 Attribute Groups

None.

### 3.1.4.55 GetSearchApplicationName

This operation is used by the protocol client to retrieve the name of the search service application.

```
<wsdl:operation name="GetSearchApplicationName">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationName"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationNameResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an

[ISearchSiteAdministrationServiceApplication\\_GetSearchApplicationName\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSearchApplicationName\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the name of the search service application.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.55.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.55.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSearchApplicationName\_Input Message**

The request WSDL message for the **GetSearchApplicationName** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationName>

The SOAP body contains the **GetSearchApplicationName** element.

### 3.1.4.55.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSearchApplicationName\_Output Message**

The response WSDL message for the **GetSearchApplicationName** WSDL operation.

The SOAP body contains the **GetSearchApplicationNameResponse** element.

### 3.1.4.55.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.55.2.1 **GetSearchApplicationName**

The input data for the **GetSearchApplicationName** WSDL operation.

```
<xs:element name="GetSearchApplicationName">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.55.2.2 **GetSearchApplicationNameResponse**

The result data for the **GetSearchApplicationName** WSDL operation.

```
<xs:element name="GetSearchApplicationNameResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSearchApplicationNameResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSearchApplicationNameResult:** The name of the search service application.

### 3.1.4.55.3 Complex Types

None.

### 3.1.4.55.4 Simple Types

None.

### 3.1.4.55.5 Attributes

None.

### 3.1.4.55.6 Groups

None.

### 3.1.4.55.7 Attribute Groups

None.

## 3.1.4.56 GetSharepointLocationVisualizations

This operation is used by the protocol client to retrieve 3 typical visualizations for a federated location. These visualizations MUST be named "full", "summary", and "topanswer" respectively.

```
<wsdl:operation name="GetSharepointLocationVisualizations">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocationVisualizations"
message="tns:ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocationVisualizationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an

[ISearchSiteAdministrationServiceApplication\\_GetSharepointLocationVisualizations\\_InputMessage](#)

request message and the protocol server responds with an

[ISearchSiteAdministrationServiceApplication\\_GetSharepointLocationVisualizations\\_OutputMessage](#)

response message, as follows:

- The protocol client MUST specify the unique identifier of the federated location for which the display information needs to be retrieved.
- If an invalid unique identifier of the federated location is given as the input parameter, the protocol server MUST return an empty list of display information in an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#).
- On success, the protocol server MUST return all the display information of the given location in an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#). The protocol server MUST NOT return any display information with a name other than "full", "summary", or "topanswer".
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.56.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.56.1.1

### **ISearchSiteAdministrationServiceApplication\_GetSharepointLocationVisualizations\_InputMessage**

The request WSDL message for the **GetSharepointLocationVisualizations** WSDL operation.



The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocationVisualizations
```

The SOAP body contains the **GetSharepointLocationVisualizations** element.

#### 3.1.4.56.1.2

### **ISearchSiteAdministrationServiceApplication\_GetSharepointLocationVisualizations\_OutputMessage**

The response WSDL message for the **GetSharepointLocationVisualizations** WSDL operation.

The SOAP body contains the **GetSharepointLocationVisualizationsResponse** element.

#### 3.1.4.56.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.56.2.1 GetSharepointLocationVisualizations

The input data for the **GetSharepointLocationVisualizations** WSDL operation.

```
<xs:element name="GetSharepointLocationVisualizations">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**id:** Specifies a unique identifier of the federated location.

##### 3.1.4.56.2.2 GetSharepointLocationVisualizationsResponse

The result data for the **GetSharepointLocationVisualizations** WSDL operation.

```
<xs:element name="GetSharepointLocationVisualizationsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSharepointLocationVisualizationsResult"
        nillable="true" xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q3:ArrayOfKeyValueOfstringVisualizationy6h3NzC8"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSharepointLocationVisualizationsResult:** An array of display information of the given **federated location**. MUST be an **ArrayOfKeyValueOfstringVisualizationy6h3NzC8** data type as specified in section [2.2.4.10](#). The name of the display information MUST NOT be a value other than "full", "summary", or "topanswer".

### 3.1.4.56.3 Complex Types

None.

### 3.1.4.56.4 Simple Types

None.

### 3.1.4.56.5 Attributes

None.

### 3.1.4.56.6 Groups

None.

### 3.1.4.56.7 Attribute Groups

None.

### 3.1.4.57 GetSpecialTerm

This operation is used by the protocol client to retrieve information from the protocol server about a keyword defined for a given keyword consumer and search term.

```
<wsdl:operation name="GetSpecialTerm">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermRes
ponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermSea
rchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_SearchServiceApplicat
ionFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTerm\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the search term and the unique identifier of keyword consumer for the keyword for which the information MUST be returned.
- On receipt, the protocol server uses the search term and the unique identifier of keyword consumer to find the keyword and MUST return the keyword information in a **Keyword** data type as specified in section [2.2.4.20](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.57.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.57.1.1

##### **ISearchSiteAdministrationServiceApplication\_GetSpecialTerm\_InputMessage**

The request WSDL message for the **GetSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTerm
```

The SOAP body contains the **GetSpecialTerm** element.

#### 3.1.4.57.1.2

##### **ISearchSiteAdministrationServiceApplication\_GetSpecialTerm\_OutputMessage**

The response WSDL message for the **GetSpecialTerm** WSDL operation.

The SOAP body contains the **GetSpecialTermResponse** element.

### 3.1.4.57.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.57.2.1 GetSpecialTerm

The input data for the **GetSpecialTerm** WSDL operation.

```
<xs:element name="GetSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="consumerGroupId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** Specifies the term of a keyword. MUST be a **Keyword.term** data type as specified in section [2.2.4.20](#).

**consumerGroupId:** The GUID that identifies the keyword consumer. The syntax is specified in section [2.2.5.4](#). MUST NOT be null.

#### 3.1.4.57.2.2 GetSpecialTermResponse

The result data for the **GetSpecialTerm** WSDL operation.

```
<xs:element name="GetSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
```

```
<xs:element minOccurs="0" name="GetSpecialTermResult" nillable="true"
xmlns:q17="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q17:Keyword"/>
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetSpecialTermResult:** Information about the keyword. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

### 3.1.4.57.3 Complex Types

None.

### 3.1.4.57.4 Simple Types

None.

### 3.1.4.57.5 Attributes

None.

### 3.1.4.57.6 Groups

None.

### 3.1.4.57.7 Attribute Groups

None.

### 3.1.4.58 GetSpecialTermsCount

This operation is used by the protocol client to retrieve the count of keywords for a given keyword consumer from the protocol server.

```
<wsdl:operation name="GetSpecialTermsCount">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCo
unt"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCo
untResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_OutputMessage"/
>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsCount\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the keyword consumer, keyword view, keyword filter, and the value for the keyword filter for which the count of keywords MUST be returned. The keyword filter MUST NOT be **KeywordFilter.Contact**.
- On success, the protocol server MUST return the count of keywords for the given keyword consumer whose unique identifier is equal to **consumerGpId** in the input message. The count is computed by applying the keyword view, keyword filter, and the value for the keyword filter in the input message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.58.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.58.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsCount\_InputMessage**

The request WSDL message for the **GetSpecialTermsCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCount
```

The SOAP body contains the **GetSpecialTermsCount** element.

#### 3.1.4.58.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsCount\_OutputMessage**

The response WSDL message for the **GetSpecialTermsCount** WSDL operation.

The SOAP body contains the **GetSpecialTermsCountResponse** element.

### 3.1.4.58.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.58.2.1 **GetSpecialTermsCount**

The input data for the **GetSpecialTermsCount** WSDL operation.

```
<xs:element name="GetSpecialTermsCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="view"
xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q23:KeywordView"/>
      <xs:element minOccurs="0" name="filter"
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q24:KeywordFilter"/>
      <xs:element minOccurs="0" name="value" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**view:** Specifies the keyword view for counting the keywords. MUST be a **KeywordView** data type as specified in section [2.2.5.6](#).

**filter:** Specifies the keyword filter for counting the keywords. MUST be a **KeywordFilter** data type as specified in section [2.2.5.5](#). MUST NOT be **KeywordFilter.Contact**.

**value:** The supplemental input element for **filter** element. Its meaning depends on the **filter** element. If **value** is null or **filter** is equal to **KeywordFilter.None**, the protocol server MUST count all keywords according to **view** without further filtering. If **value** is not null, its length MUST be less than or equal to 2048.

- If **filter** is equal to **KeywordFilter.Keyword**, the protocol server MUST count ONLY the keyword whose term is LIKE the **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is equal to **KeywordFilter.Synonym**, the protocol server MUST count ONLY the keyword which has a synonym with a term LIKE the **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is equal to **KeywordFilter.BestBetTitle**, the protocol server MUST count ONLY the keyword which is linked with a best bet whose title is LIKE the **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).
- If **filter** is equal to **KeywordFilter.BestBetUrl**, the protocol server MUST count ONLY the keyword which is linked with a best bet whose URL is LIKE the **value** where LIKE operator is as specified in [\[MSDN-TSQL-Ref\]](#).

**consumerGpId:** The GUID that identifies a keyword consumer. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.58.2.2 GetSpecialTermsCountResponse

The result data for the **GetSpecialTermsCount** WSDL operation.

```
<xs:element name="GetSpecialTermsCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSpecialTermsCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSpecialTermsCountResult:** The count for the keywords for the given keyword consumer. The count is computed by applying the **KeywordView**, **KeywordFilter** and **value** in the input message.

### 3.1.4.58.3 Complex Types

None.

### 3.1.4.58.4 Simple Types

None.

### 3.1.4.58.5 Attributes

None.

### 3.1.4.58.6 Groups

None.

### 3.1.4.58.7 Attribute Groups

None.

### 3.1.4.59 GetSpecialTermsCountForBestBet

This operation is used by the protocol client to retrieve the number of keywords associated with a given best bet from the protocol server.

```
<wsdl:operation name="GetSpecialTermsCountForBestBet">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBet"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBetResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsCountForBestBet\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsCountForBestBet\\_OuputMessage](#) response message, as follows:

- The protocol client MUST specify, in the **parentBestBet** element of the request message, the best bet whose associated keywords will be counted.
- The protocol server MUST return in element **GetSpecialTermsCountForBestBetResult** an integer greater than or equal to zero that is the count of all keywords associated with the best bet passed in element **parentBestBet**.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.59.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.59.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsCountForBestBet\_InputMessage**

The request WSDL message for the **GetSpecialTermsCountForBestBet** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBet>

The SOAP body contains the **GetSpecialTermsCountForBestBet** element.

#### 3.1.4.59.1.2

### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsCountForBestBet\_OutputMessage**

The response WSDL message for the **GetSpecialTermsCountForBestBet** WSDL operation.

The SOAP body contains the **GetSpecialTermsCountForBestBetResponse** element.

#### 3.1.4.59.2 Elements

The following XML Schema element definitions are specific to this operation.

##### 3.1.4.59.2.1 GetSpecialTermsCountForBestBet

The input data for the **GetSpecialTermsCountForBestBet** WSDL operation.

```
<xs:element name="GetSpecialTermsCountForBestBet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentBestBet" nillable="true"
        xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q29:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentBestBet:** The best bet whose associated keywords will be counted. MUST be of **BestBet** data type, as specified in section [2.2.4.15](#).

##### 3.1.4.59.2.2 GetSpecialTermsCountForBestBetResponse

The result data for the **GetSpecialTermsCountForBestBet** WSDL operation.

```
<xs:element name="GetSpecialTermsCountForBestBetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSpecialTermsCountForBestBetResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSpecialTermsCountForBestBetResult:** The count of the keywords associated with the specified best bet.

#### 3.1.4.59.3 Complex Types

None.



#### 3.1.4.59.4 Simple Types

None.

#### 3.1.4.59.5 Attributes

None.

#### 3.1.4.59.6 Groups

None.

#### 3.1.4.59.7 Attribute Groups

None.

#### 3.1.4.60 GetSpecialTermsInfo

This operation is used by the protocol client to retrieve information from the protocol server about a set of keywords, which conform to a filter and a view, for a given keyword consumer.

```
<wsdl:operation name="GetSpecialTermsInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the filter and view to which the returned keywords conform and the unique identifier of the keyword consumer of the keywords.
- The protocol server MUST return, in an **ArrayOfKeyValueOfstringKeywordy6h3NzC8**, as specified in section [2.2.4.7](#), the keywords that belong to the specified keyword consumer, filtered according to the **filter** and **value** elements, as specified in section [2.2.5.5](#), and which conform to **view** element, as specified in section [2.2.5.6](#).
- If the specified keyword consumer identifier does not correspond to a valid one, the protocol server MUST return an empty keyword list.
- If the **value** element of the request message is NULL, the protocol server MUST include all keywords on the list that belong to the specified keyword consumer and conform to the **view** element in the response to the protocol client.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.60.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.60.1.1

##### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsInfo\_InputMessage**

The request WSDL message for the **GetSpecialTermsInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfo
```

The SOAP body contains the **GetSpecialTermsInfo** element.

#### 3.1.4.60.1.2

##### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsInfo\_OutputMessage**

The response WSDL message for the **GetSpecialTermsInfo** WSDL operation.

The SOAP body contains the **GetSpecialTermsInfoResponse** element.

### 3.1.4.60.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.60.2.1 GetSpecialTermsInfo

The input data for the **GetSpecialTermsInfo** WSDL operation.

```
<xs:element name="GetSpecialTermsInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="view"
        xmlns:q20="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q20:KeywordView"/>
      <xs:element minOccurs="0" name="filter"
        xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q21:KeywordFilter"/>
      <xs:element minOccurs="0" name="value" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**view:** The view to apply to the keyword list to be returned. MUST be of data type **KeywordView**, as specified in section [2.2.5.6](#).

**filter:** The kind of filtering to apply to the keyword consumer's keyword definitions. MUST be of data type **KeywordFilter**, as specified in section [2.2.5.5](#). This value MUST NOT be NULL.

**value:** The value the keyword definitions are filtered against. This value MUST be a **string** with length less than or equal to 2048 or it MUST be NULL.

**consumerGpId:** The unique identifier of the keyword consumer whose keyword definitions are to be returned. This value MUST NOT be NULL and its length MUST be less than or equal to 50 characters. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.60.2.2 GetSpecialTermsInfoResponse

The result data for the **GetSpecialTermsInfo** WSDL operation.

```
<xs:element name="GetSpecialTermsInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSpecialTermsInfoResult" nillable="true"
        xmlns:q22="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
        type="q22:ArrayOfKeyValueOfstringKeywordy6h3NzC8"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSpecialTermsInfoResult:** The returned keywords, in the form of a dictionary that maps the keywords' search terms to the keywords. MUST be of data type **ArrayOfKeyValueOfstringKeywordy6h3NzC8**, as specified in section [2.2.4.7](#). This value MUST NOT be NULL.

### 3.1.4.60.3 Complex Types

None.

### 3.1.4.60.4 Simple Types

None.

### 3.1.4.60.5 Attributes

None.

### 3.1.4.60.6 Groups

None.

### 3.1.4.60.7 Attribute Groups

None.

### 3.1.4.61 GetSpecialTermsInfoForBestBet

This operation is used by the protocol client to retrieve from the protocol server all the keywords for a given best bet.

```
<wsdl:operation name="GetSpecialTermsInfoForBestBet">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBet"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_InputMessage"/>
```

```
<wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBetResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsInfoForBestBet\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSpecialTermsInfoForBestBet\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the best bet for which the associated keywords MUST be returned.
- On receipt, the protocol server uses **parentBestBet.id** in the input message to identify the best bet and MUST return all the keywords for it in an **ArrayOfKeyValueOfstringKeywordy6h3NzC8** data type as specified in section [2.2.4.7](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.61.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.61.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsInfoForBestBet\_InputMessage**

The request WSDL message for the **GetSpecialTermsInfoForBestBet** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBet
```

The SOAP body contains the **GetSpecialTermsInfoForBestBet** element.

#### 3.1.4.61.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSpecialTermsInfoForBestBet\_OutputMessage**

The response WSDL message for the **GetSpecialTermsInfoForBestBet** WSDL operation.

The SOAP body contains the **GetSpecialTermsInfoForBestBetResponse** element.

### 3.1.4.61.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.61.2.1 **GetSpecialTermsInfoForBestBet**

The input data for the **GetSpecialTermsInfoForBestBet** WSDL operation.

```

<xs:element name="GetSpecialTermsInfoForBestBet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentBestBet" nillable="true"
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q27:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**parentBestBet:** The best bet for which the protocol server MUST return all the keywords. MUST NOT be null. MUST be a **BestBet** data type as specified in section [2.2.4.15](#).

### 3.1.4.61.2.2 GetSpecialTermsInfoForBestBetResponse

The result data for the **GetSpecialTermsInfoForBestBet** WSDL operation.

```

<xs:element name="GetSpecialTermsInfoForBestBetResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSpecialTermsInfoForBestBetResult" nillable="true"
xmlns:q28="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q28:ArrayOfKeyValueOfstringKeywordy6h3NzC8"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetSpecialTermsInfoForBestBetResult:** A dictionary data type which maps **Keyword.term** to **Keyword** for all keywords for the input best bet. MUST be a **ArrayOfKeyValueOfstringKeywordy6h3NzC8** data type as specified in section [2.2.4.7](#).

### 3.1.4.61.3 Complex Types

None.

### 3.1.4.61.4 Simple Types

None.

### 3.1.4.61.5 Attributes

None.

### 3.1.4.61.6 Groups

None.

### 3.1.4.61.7 Attribute Groups

None.

### 3.1.4.62 GetSynonym

This operation is used by the protocol client to determine if a keyword has a specified a keyword synonym in the protocol server.

```
<wsdl:operation name="GetSynonym">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonym"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_OutputMessage"/>
  <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymSearchServiceApplicationFaultFault"
name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSynonym\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSynonym\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword that has the synonym and the keyword synonym's search term.
- The protocol server MUST return the keyword synonym that belongs to the specified keyword and has the given search term.
- If the protocol server does not find a keyword synonym for the specified keyword with the given search term it MUST abort this operation and MUST return a **FaultException<SearchServiceApplicationFault>** error message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.62.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.62.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSynonym\_InputMessage**

The request WSDL message for the **GetSynonym** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonym
```

The SOAP body contains the **GetSynonym** element.

### 3.1.4.62.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSynonym\_OutputMessage**

The response WSDL message for the **GetSynonym** WSDL operation.

The SOAP body contains the **GetSynonymResponse** element.

### 3.1.4.62.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.62.2.1 **GetSynonym**

The input data for the **GetSynonym** WSDL operation.

```
<xs:element name="GetSynonym">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
xmlns:q53="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q53:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** The search term of the keyword synonym to be returned. This value MUST NOT be NULL and MUST be a string with length less than or equal to 100.

**parentSpecialTerm:** The keyword that has the keyword synonym to be returned. This value MUST NOT be NULL and MUST be of data type **Keyword**, as specified in section [2.2.4.20](#).

#### 3.1.4.62.2.2 **GetSynonymResponse**

The result data for the **GetSynonym** WSDL operation.

```
<xs:element name="GetSynonymResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSynonymResult" nillable="true"
xmlns:q54="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q54:Synonym"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSynonymResult:** The keyword synonym to be returned. It MUST be of **Synonym** data type, as specified in section [2.2.4.29](#).

### 3.1.4.62.3 Complex Types

None.

#### 3.1.4.62.4 Simple Types

None.

#### 3.1.4.62.5 Attributes

None.

#### 3.1.4.62.6 Groups

None.

#### 3.1.4.62.7 Attribute Groups

None.

### 3.1.4.63 GetSynonymsCountForSpecialTerm

This operation is used by the protocol client to retrieve the number of keyword synonyms associated with a keyword, from the protocol server.

```
<wsdl:operation name="GetSynonymsCountForSpecialTerm">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTerm"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTermResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSynonymsCountForSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSynonymsCountForSpecialTerm\\_OuputMessage](#) response message, as follows:

- The protocol client MUST specify, in the **parentSpecialTerm** element of the request message, the keyword whose keyword synonyms will be counted.
- The protocol server MUST return in element **GetSynonymsCountForSpecialTermResult** an integer greater than or equal to zero that is the count of all synonyms associated with the keyword passed in element **parentSpecialTerm**. This count MUST only consider the keyword synonyms and not the keyword's search term itself.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.63.1 Messages

The following WSDL message definitions are specific to this operation.



### 3.1.4.63.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSynonymsCountForSpecialTerm\_InputMessage**

The request WSDL message for the **GetSynonymsCountForSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTerm
```

The SOAP body contains the **GetSynonymsCountForSpecialTerm** element.

### 3.1.4.63.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSynonymsCountForSpecialTerm\_OutputMessage**

The response WSDL message for the **GetSynonymsCountForSpecialTerm** WSDL operation.

The SOAP body contains the **GetSynonymsCountForSpecialTermResponse** element.

### 3.1.4.63.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.63.2.1 **GetSynonymsCountForSpecialTerm**

The input data for the **GetSynonymsCountForSpecialTerm** WSDL operation.

```
<xs:element name="GetSynonymsCountForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
xmlns:q55="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q55:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentSpecialTerm:** The keyword whose keyword synonyms will be counted. MUST be of data type **Keyword** as specified in section [2.2.4.20](#).

#### 3.1.4.63.2.2 **GetSynonymsCountForSpecialTermResponse**

The result data for the **GetSynonymsCountForSpecialTerm** WSDL operation.

```
<xs:element name="GetSynonymsCountForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSynonymsCountForSpecialTermResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetSynonymsCountForSpecialTermResult:** The count of the keyword synonyms associated with the specified keyword.

### 3.1.4.63.3 Complex Types

None.

### 3.1.4.63.4 Simple Types

None.

### 3.1.4.63.5 Attributes

None.

### 3.1.4.63.6 Groups

None.

### 3.1.4.63.7 Attribute Groups

None.

## 3.1.4.64 GetSynonymsInfoSpecialTerm

This operation is used by the protocol client to retrieve information from the protocol server about all keyword synonyms for the given keyword.

```
<wsdl:operation name="GetSynonymsInfoSpecialTerm">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTerm"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTermResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetSynonymsInfoSpecialTerm\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetSynonymsInfoSpecialTerm\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword for which the information of all keyword synonyms MUST be returned.
- On success, the protocol server MUST return in the response message all the keyword synonyms for the input keyword in an **ArrayOfKeyValueOfstringSynonymy6h3NzC8** data type as specified in section [3.1.4.64.3.1](#).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.64.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.64.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetSynonymsInfoSpecialTerm\_InputMessage**

The request WSDL message for the **GetSynonymsInfoSpecialTerm** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTerm
```

The SOAP body contains the **GetSynonymsInfoSpecialTerm** element.

#### 3.1.4.64.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetSynonymsInfoSpecialTerm\_OutputMessage**

The response WSDL message for the **GetSynonymsInfoSpecialTerm** WSDL operation.

The SOAP body contains the **GetSynonymsInfoSpecialTermResponse** element.

### 3.1.4.64.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.64.2.1 GetSynonymsInfoSpecialTerm

The input data for the **GetSynonymsInfoSpecialTerm** WSDL operation.

```
<xs:element name="GetSynonymsInfoSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
        xmlns:q60="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q60:Keyword"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentSpecialTerm:** The keyword for which the protocol server MUST return all the keyword synonyms. MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

#### 3.1.4.64.2.2 GetSynonymsInfoSpecialTermResponse

The result data for the **GetSynonymsInfoSpecialTerm** WSDL operation.

```
<xs:element name="GetSynonymsInfoSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" name="GetSynonymsInfoSpecialTermResult" nillable="true"
      xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      type="q61:ArrayOfKeyValueOfstringSynonymy6h3NzC8"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetSynonymsInfoSpecialTermResult:** The **Dictionary** data type which maps from **Synonym.term** to **Synonym** for all keyword synonyms for the input keyword. MUST be an **ArrayOfKeyValueOfstringSynonymy6h3NzC8** data type as specified in section [3.1.4.64.3.1](#).

### 3.1.4.64.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.64.3.1 ArrayOfKeyValueOfstringSynonymy6h3NzC8

**Namespace:** <http://schemas.microsoft.com/2003/10/Serialization/Arrays>

The **ArrayOfKeyValueOfstringSynonymy6h3NzC8** complex type is a dictionary which maps from the search terms of keyword synonyms to the keyword synonyms.

```

<xs:complexType name="ArrayOfKeyValueOfstringSynonymy6h3NzC8">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringSynonymy6h3NzC8">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" nillable="true" type="xs:string"/>
          <xs:element name="Value" nillable="true"
            xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
            on" type="q5:Synonym"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

**KeyValueOfstringSynonymy6h3NzC8:** Specifies a mapping relationship between the search term of a keyword synonym and the keyword synonym where the **Key** element MUST be a **Synonym.term** data type as specified in section [2.2.4.29](#) and the **Value** element MUST be a **Synonym** data type as specified in section [2.2.4.29](#). **Key's** value MUST be equal to the value of **Value.term**.

**KeyValueOfstringSynonymy6h3NzC8.Key:** Specifies the search term of a keyword synonym. MUST be a **Synonym.term** data type as specified in section [2.2.4.29](#). MUST NOT be NULL.

**KeyValueOfstringSynonymy6h3NzC8.Value:** Specifies a keyword synonym. MUST be a **Synonym** data type as specified in section [2.2.4.29](#). MUST NOT be NULL.

### 3.1.4.64.4 Simple Types

None.

### 3.1.4.64.5 Attributes

None.

### 3.1.4.64.6 Groups

None.

### 3.1.4.64.7 Attribute Groups

None.

### 3.1.4.65 GetUnusedScopesForConsumer

This operation is used by the protocol client to retrieve information about all search scopes for a search scope consumer that are not associated to a search scope display group.

```
<wsdl:operation name="GetUnusedScopesForConsumer">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesForConsumer"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesForConsumerResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetUnusedScopesForConsumer\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetUnusedScopesForConsumer\\_OutputMessage](#) response message, as follows:

- The protocol client MUST place in the **consumerName** element of the request message the name that uniquely identifies the search scope consumer whose unused search scopes are to be returned.
- The protocol server MUST return in the **GetUnusedScopesForConsumerResult** element a list of search scopes which are not associated to any search scope display groups. MUST be of data type **ArrayOfScopeInfo**, as specified in section [2.2.4.11](#). If there are no search scopes that fit these criteria the protocol server MUST return an empty list.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.65.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.65.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetUnusedScopesForConsumer\_InputMessage**

The request WSDL message for the **GetUnusedScopesForConsumer** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesForConsumer
```

The SOAP body contains the **GetUnusedScopesForConsumer** element.

### 3.1.4.65.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetUnusedScopesForConsumer\_OutputMessage**

The response WSDL message for the **GetUnusedScopesForConsumer** WSDL operation.

The SOAP body contains the **GetUnusedScopesForConsumerResponse** element.

### 3.1.4.65.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.65.2.1 **GetUnusedScopesForConsumer**

The input data for the **GetUnusedScopesForConsumer** WSDL operation.

```
<xs:element name="GetUnusedScopesForConsumer">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**consumerName:** The name that uniquely identifies the search scope consumer. This value MUST NOT be NULL.

#### 3.1.4.65.2.2 **GetUnusedScopesForConsumerResponse**

The result data for the **GetUnusedScopesForConsumer** WSDL operation.

```
<xs:element name="GetUnusedScopesForConsumerResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetUnusedScopesForConsumerResult" nillable="true"
xmlns:q74="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q74:ArrayOfScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetUnusedScopesForConsumerResult:** The returned list of search scopes. MUST be of data type **ArrayOfScopeInfo**, as specified in section [2.2.4.11](#). This value MUST NOT be NULL.

### 3.1.4.65.3 Complex Types

None.

#### 3.1.4.65.4 Simple Types

None.

#### 3.1.4.65.5 Attributes

None.

#### 3.1.4.65.6 Groups

None.

#### 3.1.4.65.7 Attribute Groups

None.

#### 3.1.4.66 GetUrlRuleCount

This operation is used by the protocol client to retrieve information about the number of items matching a URL.

```
<wsdl:operation name="GetUrlRuleCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCountResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetUrlRuleCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetUrlRuleCount\\_OutputMessage](#) response message as follows:

- The protocol client MUST specify the URL which needs to be matched.
- On receipt, the protocol server interprets the URL sent by the protocol client to find the number of items matching the URL in search index.
- On success, the protocol server MUST return a count of all the items matching the URL sent by the protocol client.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.66.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.66.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetUrlRuleCount\_InputMessage**

The request WSDL message for the **GetUrlRuleCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCount
```

The SOAP body contains the **GetUrlRuleCount** element.

### 3.1.4.66.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetUrlRuleCount\_OutputMessage**

The response WSDL message for the **GetUrlRuleCount** WSDL operation.

The SOAP body contains the **GetUrlRuleCountResponse** element.

### 3.1.4.66.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.66.2.1 **GetUrlRuleCount**

The input data for the **GetUrlRuleCount** WSDL operation.

```
<xs:element name="GetUrlRuleCount">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="matchString" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**matchString:** Specifies the URL for which the number of items, matching the URL, need to be counted.

#### 3.1.4.66.2.2 **GetUrlRuleCountResponse**

The result data for the **GetUrlRuleCount** WSDL operation.

```
<xs:element name="GetUrlRuleCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetUrlRuleCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetUrlRuleCountResult:** This element specifies the number of items matching the URL specified in **matchString**.

### 3.1.4.66.3 Complex Types

None.



### 3.1.4.66.4 Simple Types

None.

### 3.1.4.66.5 Attributes

None.

### 3.1.4.66.6 Groups

None.

### 3.1.4.66.7 Attribute Groups

None.

### 3.1.4.67 GetUserPreferenceSerializeHelper

This operation is used by the protocol client to retrieve the preferences associated with the given user.

```
<wsdl:operation name="GetUserPreferenceSerializeHelper">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreferenceSerializeHelper"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreferenceSerializeHelperResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetUserPreferenceSerializeHelper InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetUserPreferenceSerializeHelper OutputMessage](#) response message, as follows:

- The protocol client MUST specify the **userID** corresponding to the user for which associated preferences are to be retrieved.
- On receipt, the protocol server MUST try to retrieve the preference associated with that user. If the associated preference is found, the protocol server MUST return the preference. Otherwise, the protocol server MUST return NULL.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.67.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.67.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetUserPreferenceSerializeHelper\_InputMessage**

The request WSDL message for the **GetUserPreferenceSerializeHelper** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreferenceSerializeHelper
```

The SOAP body contains the **GetUserPreferenceSerializeHelper** element.

### 3.1.4.67.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetUserPreferenceSerializeHelper\_OutputMessage**

The response WSDL message for the **GetUserPreferenceSerializeHelper** WSDL operation.

The SOAP body contains the **GetUserPreferenceSerializeHelperResponse** element.

### 3.1.4.67.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.67.2.1 GetUserPreferenceSerializeHelper

The input data for the **GetUserPreferenceSerializeHelper** WSDL operation.

```
<xs:element name="GetUserPreferenceSerializeHelper">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userID" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**userID:** Specifies the unique identifier of the user for which the preference has to be retrieved. Length of **userID** MUST be greater than 0 and not more than 512. MUST NOT be NULL.

#### 3.1.4.67.2.2 GetUserPreferenceSerializeHelperResponse

The result data for the **GetUserPreferenceSerializeHelper** WSDL operation.

```
<xs:element name="GetUserPreferenceSerializeHelperResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetUserPreferenceSerializeHelperResult" nillable="true"
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q7:UserPreferenceSerializeHelper"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetUserPreferenceSerializeHelperResult:** Contains the preference for the given user. MUST be of type **UserPreferenceSerializeHelper** as specified in section [2.2.4.30](#). MUST be NULL if there is no associated preference for the given user.

### 3.1.4.67.3 Complex Types

None.

### 3.1.4.67.4 Simple Types

None.

### 3.1.4.67.5 Attributes

None.

### 3.1.4.67.6 Groups

None.

### 3.1.4.67.7 Attribute Groups

None.

### 3.1.4.68 GetVisibleScopesCount

This operation is used by the protocol client to retrieve information about number of visible search scopes defined in the protocol server.

```
<wsdl:operation name="GetVisibleScopesCount">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCount"
    message="tns:ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_InputMessage"/
  >
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCountResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_OutputMessage"
  />
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetVisibleScopesCount\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetVisibleScopesCount\\_OutputMessage](#) response message, as follows:

- On success, the protocol server MUST return the number of search scopes with **ScopeInfo.DisplayInAdminUI** equal to **true** as specified in section [2.2.4.24](#).
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.68.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.68.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetVisibleScopesCount\_InputMessage**

The request WSDL message for the **GetVisibleScopesCount** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCount
```

The SOAP body contains the **GetVisibleScopesCount** element.

#### 3.1.4.68.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetVisibleScopesCount\_OutputMessage**

The response WSDL message for the **GetVisibleScopesCount** WSDL operation.

The SOAP body contains the **GetVisibleScopesCountResponse** element.

### 3.1.4.68.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.68.2.1 **GetVisibleScopesCount**

The input data for the **GetVisibleScopesCount** WSDL operation.

```
<xs:element name="GetVisibleScopesCount">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.68.2.2 **GetVisibleScopesCountResponse**

The result data for the **GetVisibleScopesCount** WSDL operation.

```
<xs:element name="GetVisibleScopesCountResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVisibleScopesCountResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetVisibleScopesCountResult:** Specifies the number of search scopes defined in the protocol server with **ScopeInfo.DisplayInAdminUI** equal to **true** as specified in section in section [2.2.4.24](#). MUST be greater than or equal to 0.

### 3.1.4.68.3 Complex Types

None.

### 3.1.4.68.4 Simple Types

None.

### 3.1.4.68.5 Attributes

None.

### 3.1.4.68.6 Groups

None.

### 3.1.4.68.7 Attribute Groups

None.

### 3.1.4.69 GetVolatileScopeInfo

This operation is used by the protocol client to retrieve compilation state and compilation time of a search scope defined in the protocol server.

```
<wsdl:operation name="GetVolatileScopeInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeI
nfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeI
nfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_OutputMessage"/
>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetVolatileScopeInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetVolatileScopeInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope for which the compilation state and compilation time MUST be returned.
- On receipt, the protocol server uses the specified unique identifier to find the search scope and returns compilation state and compilation time of the search scope in a **ScopeInfo** data type as specified in section [2.2.4.24](#).
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.69.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.69.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetVolatileScopeInfo\_InputMessage**

The request WSDL message for the **GetVolatileScopeInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeInfo
```

The SOAP body contains the **GetVolatileScopeInfo** element.

### 3.1.4.69.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetVolatileScopeInfo\_OutputMessage**

The response WSDL message for the **GetVolatileScopeInfo** WSDL operation.

The SOAP body contains the **GetVolatileScopeInfoResponse** element.

### 3.1.4.69.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.69.2.1 **GetVolatileScopeInfo**

The input data for the **GetVolatileScopeInfo** WSDL operation.

```
<xs:element name="GetVolatileScopeInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopeId:** unique identifier of the search scope.

#### 3.1.4.69.2.2 **GetVolatileScopeInfoResponse**

The result data for the **GetVolatileScopeInfo** WSDL operation.

```
<xs:element name="GetVolatileScopeInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVolatileScopeInfoResult" nillable="true"
xmlns:q80="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q80:ScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetVolatileScopeInfoResult:** Information about the compilation state of the search scope. MUST be a **ScopeInfo** data type as specified in section [2.2.4.24](#).

If **GetVolatileScopeInfoResult.isDeleted** is **true**, the protocol client MUST ignore the values of all the other child elements of **GetVolatileScopeInfoResult**.

If the **GetVolatileScopeInfo.isDeleted** is **false** and **GetVolatileScopeInfo.CompilationState** is equal to **Empty** or **Invalid**, the value of **GetVolatileScopeInfo.LastCompilationTime** MUST be equal to **00:00:00.0000000, January 1, 0001**.

### 3.1.4.69.3 Complex Types

None.

### 3.1.4.69.4 Simple Types

None.

### 3.1.4.69.5 Attributes

None.

### 3.1.4.69.6 Groups

None.

### 3.1.4.69.7 Attribute Groups

None.

## 3.1.4.70 GetVolatileScopesManagerInfo

This operation is used by the protocol client to retrieve information that is likely to change, as represented by **VolatileScopesManagerInfo** data type specified in section [3.1.4.70.3.1](#), for the search scopes system in the search application.

```
<wsdl:operation name="GetVolatileScopesManagerInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesManagerInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesManagerInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_GetVolatileScopesManagerInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_GetVolatileScopesManagerInfo\\_OutputMessage](#) response message.

- On receipt, the protocol server returns details represented by **VolatileScopesManagerInfo** data type as specified in section [3.1.4.70.3.1](#) for the search scopes system.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.70.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.70.1.1

#### **ISearchSiteAdministrationServiceApplication\_GetVolatileScopesManagerInfo\_InputMessage**

The request WSDL message for the **GetVolatileScopesManagerInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesManagerInfo
```

The SOAP body contains the **GetVolatileScopesManagerInfo** element.

#### 3.1.4.70.1.2

#### **ISearchSiteAdministrationServiceApplication\_GetVolatileScopesManagerInfo\_OutputMessage**

The response WSDL message for the **GetVolatileScopesManagerInfo** WSDL operation.

The SOAP body contains the **GetVolatileScopesManagerInfoResponse** element.

### 3.1.4.70.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.70.2.1 GetVolatileScopesManagerInfo

The input data for the **GetVolatileScopesManagerInfo** WSDL operation.

```
<xs:element name="GetVolatileScopesManagerInfo">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.70.2.2 GetVolatileScopesManagerInfoResponse

The result data for the **GetVolatileScopesManagerInfo** WSDL operation.

```
<xs:element name="GetVolatileScopesManagerInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetVolatileScopesManagerInfoResult" nillable="true"
        xmlns:q70="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q70:VolatileScopesManagerInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**GetVolatileScopesManagerInfoResult:** Details likely to change for the search scopes system. MUST be a **VolatileScopesManagerInfo** data type as specified in section [3.1.4.70.3.1](#).

### 3.1.4.70.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

#### 3.1.4.70.3.1 VolatileScopesManagerInfo

**Namespace:**

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration>

The **VolatileScopesManagerInfo** complex type represents the statistics and status for the search scopes system in a search application.

```
<xs:complexType name="VolatileScopesManagerInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="AverageCompilationDuration" type="ser:duration"/>
    <xs:element minOccurs="0" name="CompilationPercentComplete" type="xs:short"/>
    <xs:element minOccurs="0" name="CompilationStartTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="CompilationState" type="tns:ScopesCompilationState"/>
    <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="NextCompilationTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="ScopesNeedingCompilation" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

**AverageCompilationDuration:** The value MUST be set to the average compilation time for the search scopes in the search scopes system. The value MUST be of data type duration as specified in section [2.2.5.2](#).

**CompilationPercentComplete:** The value MUST be set to the percentage of compilation finished for the search scopes system.

**CompilationStartTime:** The value MUST be set to the date and time, in UTC format, of the current compilation of the search scopes system. This value MAY be NULL if the search scopes system is not currently compiling search scopes.

**CompilationState:** The value MUST be set to the search scope compilation state of the search scopes system. The value MUST be a **ScopesCompilationState** data type as specified in section [2.2.5.14](#).

**LastCompilationTime:** The value MUST be NULL or it MUST be set to the date and time, in UTC format, of the last compilation of the search scopes system.

**NextCompilationTime:** The value MUST be set to the date and time, in UTC format, for the next compilation of the search scopes system. MUST NOT be NULL.

**ScopesNeedingCompilation:** The value MUST be set to the number of search scopes needing compilation in the search scopes system.

#### 3.1.4.70.4 Simple Types

None.

#### 3.1.4.70.5 Attributes

None.

#### 3.1.4.70.6 Groups

None.

#### 3.1.4.70.7 Attribute Groups

None.

#### 3.1.4.71 PutLocationVisualization

This operation is used by the protocol client to add a new visualization definition for a federated location in the search application.

```
<wsdl:operation name="PutLocationVisualization">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisualization"
    message="tns:ISearchSiteAdministrationServiceApplication_PutLocationVisualization_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisualizationResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_PutLocationVisualization_OutputMessage"/>
</wsdl:operation>
```

This protocol client sends an [ISearchSiteAdministrationServiceApplication\\_PutLocationVisualization\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_PutLocationVisualization\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the federated location, the new visualization definition as a **Visualization** data type, specified in section [2.2.4.32](#), and whether existing visualizations are to be deleted first before adding the new visualization.
- On receipt, the protocol server MUST check whether the federated location has any existing visualization of the same name. If so, it MUST update the existing visualization instead. Otherwise, it MUST add the new visualization.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

##### 3.1.4.71.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.71.1.1

#### **ISearchSiteAdministrationServiceApplication\_PutLocationVisualization\_InputMessage**

The request WSDL message for the **PutLocationVisualization** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisualization
```

The SOAP body contains the **PutLocationVisualization** element.

### 3.1.4.71.1.2

#### **ISearchSiteAdministrationServiceApplication\_PutLocationVisualization\_OutputMessage**

The response WSDL message for the **PutLocationVisualization** WSDL operation.

The SOAP body contains the **PutLocationVisualizationResponse** element.

### 3.1.4.71.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.71.2.1 PutLocationVisualization

The input data for the **PutLocationVisualization** WSDL operation.

```
<xs:element name="PutLocationVisualization">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="id" type="xs:int"/>
      <xs:element minOccurs="0" name="visualization" nillable="true"
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q2:Visualization"/>
      <xs:element minOccurs="0" name="shouldFirstDeleteAllVisualisations" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**id:** A unique identifier of the federated location for which the visualization information will be added.

**visualization:** Information about the visualization information to be added to the federated location. MUST be a **Visualization** data type as specified in section [2.2.4.32](#).

**shouldFirstDeleteAllVisualisations:** Specifies whether all existing visualizations of the federated location are to be deleted before the new one is added. If it is "true", existing location visualizations MUST be deleted before adding the new one. Otherwise existing locations MUST NOT be deleted.

#### 3.1.4.71.2.2 PutLocationVisualizationResponse

The result data for the **PutLocationVisualization** WSDL operation.

```
<xs:element name="PutLocationVisualizationResponse">
```

```
<xs:complexType>
  <xs:sequence/>
</xs:complexType>
</xs:element>
```

### 3.1.4.71.3 Complex Types

None.

### 3.1.4.71.4 Simple Types

None.

### 3.1.4.71.5 Attributes

None.

### 3.1.4.71.6 Groups

None.

### 3.1.4.71.7 Attribute Groups

None.

### 3.1.4.72 RemoveBestBetLink

This operation is used by the protocol client to remove the link between a keyword and a best bet. If there is no other keyword linked to the best bet then the best bet is also removed.

```
<wsdl:operation name="RemoveBestBetLink">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLink
" message="tns:ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLink
Response"
message="tns:ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_RemoveBestBetLink\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_RemoveBestBetLink\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword and the best bet for which the link MUST be removed by the protocol server.
- On receipt the protocol server MUST remove the link between the input keyword and the input best bet. If there is no other keyword related to the best bet then the best bet is also removed.
- On success, the protocol server MUST return the empty response message.

- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.72.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.72.1.1

#### **ISearchSiteAdministrationServiceApplication\_RemoveBestBetLink\_InputMessage**

The request WSDL message for the **RemoveBestBetLink** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLink
```

The SOAP body contains the **RemoveBestBetLink** element.

#### 3.1.4.72.1.2

#### **ISearchSiteAdministrationServiceApplication\_RemoveBestBetLink\_OutputMessage**

The response WSDL message for the **RemoveBestBetLink** WSDL operation.

The SOAP body contains the **RemoveBestBetLinkResponse** element.

### 3.1.4.72.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.72.2.1 RemoveBestBetLink

The input data for the **RemoveBestBetLink** WSDL operation.

```
<xs:element name="RemoveBestBetLink">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
xmlns:q38="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q38:Keyword"/>
      <xs:element minOccurs="0" name="bestBet" nillable="true"
xmlns:q39="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q39:BestBet"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentSpecialTerm:** Specifies a keyword for which to remove the link from **bestBet**. MUST NOT be NULL. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

**bestBet:** Specifies a best bet for which to remove the link from **parentSpecialTerm**. MUST NOT be NULL. MUST be a **BestBet** data type as specified in section [2.2.4.15](#).

### 3.1.4.72.2 RemoveBestBetLinkResponse

The result data for the **RemoveBestBetLink** WSDL operation.

```
<xs:element name="RemoveBestBetLinkResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.72.3 Complex Types

None.

### 3.1.4.72.4 Simple Types

None.

### 3.1.4.72.5 Attributes

None.

### 3.1.4.72.6 Groups

None.

### 3.1.4.72.7 Attribute Groups

None.

### 3.1.4.73 SetBestBetInfo

This operation is used by the protocol client to update details of a best bet defined in the protocol server.

```
<wsdl:operation name="SetBestBetInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_SetBestBetInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_SetBestBetInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an

**ISearchSiteAdministrationServiceApplication\_SetBestBetInfo\_InputMessage** request message, as specified in section [3.1.4.73.1.1](#), and the protocol server responds with an **ISearchSiteAdministrationServiceApplication\_SetBestBetInfo\_OutputMessage** response message, as specified in section [3.1.4.73.1.2](#), as follows:

- The protocol client MUST specify the best bet and keyword consumer for which the information MUST be updated by the protocol server.

- On receipt, the protocol server determines if there is an existing best bet that has a different identifier than the **bestBet.Id**, but the same URL as **bestBet.url**, and is associated with the same keyword consumer whose unique identifier is equal to **consumerGpId**. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message. If not, the protocol server updates the best bet with the information in **bestBet**.
- On success, the protocol server MUST return an empty response message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.73.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.73.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetBestBetInfo\_InputMessage**

The request WSDL message for the **SetBestBetInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfo
```

The SOAP body contains the **SetBestBetInfo** element.

#### 3.1.4.73.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetBestBetInfo\_OutputMessage**

The response WSDL message for the **SetBestBetInfo** WSDL operation.

The SOAP body contains the **SetBestBetInfoResponse** element.

### 3.1.4.73.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.73.2.1 SetBestBetInfo

The input data for the **SetBestBetInfo** WSDL operation.

```
<xs:element name="SetBestBetInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="bestBet" nillable="true"
xmlns:q50="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q50:BestBet"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**bestBet:** Specifies the information for best bet to update. MUST NOT be NULL. MUST be a **BestBet** data type, as specified in section [2.2.4.15](#).

**consumerGpId:** The GUID that identifies the keyword consumer. It MUST NOT be NULL. The syntax is specified in section [2.2.5.4](#).

### 3.1.4.73.2.2 SetBestBetInfoResponse

The result data for the **SetBestBetInfo** WSDL operation.

```
<xs:element name="SetBestBetInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.73.3 Complex Types

None.

### 3.1.4.73.4 Simple Types

None.

### 3.1.4.73.5 Attributes

None.

### 3.1.4.73.6 Groups

None.

### 3.1.4.73.7 Attribute Groups

None.

### 3.1.4.74 SetDisplayGroupInfo

This operation is used by the protocol client to update details of a search scope display group defined in the protocol server.

```
<wsdl:operation name="SetDisplayGroupInfo">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetDisplayGroupInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetDisplayGroupInfo\\_OutputMessage](#) response message, as follows:



- The protocol client MUST specify the search scope display group's information that MUST be updated.
- On receipt the protocol server checks if the caller has the right privileges to update the search scope display group in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Then the protocol server checks if **displayGroupInfo** in the input message is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server checks if the search scope display group with the specified unique identifier **displayGroupInfo.Id** is defined in the protocol server. If yes, the protocol server updates the search scope display group with the information specified in the input message. Otherwise, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the empty response message. Also, the protocol server MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the search scope display group belongs to.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.74.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.74.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetDisplayGroupInfo\_InputMessage**

The request WSDL message for the **SetDisplayGroupInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfo
```

The SOAP body contains the **SetDisplayGroupInfo** element.

#### 3.1.4.74.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetDisplayGroupInfo\_OutputMessage**

The response WSDL message for the **SetDisplayGroupInfo** WSDL operation.

The SOAP body contains the **SetDisplayGroupInfoResponse** element.

### 3.1.4.74.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.74.2.1 SetDisplayGroupInfo

The input data for the **SetDisplayGroupInfo** WSDL operation.

```

<xs:element name="SetDisplayGroupInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupInfo" nillable="true"
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" type="q14:DisplayGroupInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**displayGroupInfo:** Specifies the search scope display group information that MUST be updated. MUST be a **DisplayGroupInfo** data type as specified in section [2.2.4.18](#). The protocol server MUST ignore the values of **ConsumerName**, **IsDeleted**, **LastModifiedBy**, **LastModifiedTime** and **SiteUrl** child elements. The protocol server MUST use the name of the currently logged on user calling this operation as the value of **LastModifiedBy** child element. MUST NOT be NULL.

### 3.1.4.74.2.2 SetDisplayGroupInfoResponse

The result data for the **SetDisplayGroupInfo** WSDL operation.

```

<xs:element name="SetDisplayGroupInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.74.3 Complex Types

None.

### 3.1.4.74.4 Simple Types

None.

### 3.1.4.74.5 Attributes

None.

### 3.1.4.74.6 Groups

None.

### 3.1.4.74.7 Attribute Groups

None.

### 3.1.4.75 SetDisplayGroupListInfo

This operation is used by the protocol client to update the memberships of the search scopes and the search scope display group, given the unique identifier of the search scope display group and the list of identifiers of the search scopes.

```

<wsdl:operation name="SetDisplayGroupListInfo">

```

```

    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupLi
stInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_InputMessage
"/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupLi
stInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_OutputMessag
e"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetDisplayGroupListInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetDisplayGroupListInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the unique identifier of the search scope display group and the array of identifiers for the search scopes for which the protocol server MUST update memberships.
- On receipt, the protocol server checks if the caller has the right privileges to update the memberships for the search scope display group and search scopes in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server checks if **scopeIds** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- The protocol server then removes all the existing memberships for the search scope display group whose identifier is equal to **displayGroupId**, recreates new memberships for the search scope display group and the given list of search scopes whose identifiers are specified in **scopeIds**. The rank of the membership is generated automatically based on the index location of each search scopes identifier in **scopeIds**. For example, if **scopeIds** has 6 identifiers: the first one is associated with the rank equal to 1 and the last one is associated with the rank equal to 6.
- If any search scope identifier in **scopeIds** is invalid, the protocol server MUST abort the transaction and return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the empty response message. Also, the protocol server MUST increment the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer to whom the search scope display group belongs.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.75.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.75.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetDisplayGroupListInfo\_InputMessage**

The request WSDL message for the **SetDisplayGroupListInfo** WSDL operation.

The SOAP action value is:

<http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupListInfo>

The SOAP body contains the **SetDisplayGroupListInfo** element.

### 3.1.4.75.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetDisplayGroupListInfo\_OutputMessage**

The response WSDL message for the **SetDisplayGroupListInfo** WSDL operation.

The SOAP body contains the **SetDisplayGroupListInfoResponse** element.

### 3.1.4.75.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.75.2.1 SetDisplayGroupListInfo

The input data for the **SetDisplayGroupListInfo** WSDL operation.

```
<xs:element name="SetDisplayGroupListInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int"/>
      <xs:element minOccurs="0" name="scopeIds" nillable="true"
        xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q16:ArrayOfint"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**displayGroupId:** Specifies a unique identifier of the search scope display group to be updated. It MUST be greater than or equal to 0.

**scopeIds:** Specifies a list of identifiers of search scopes to create new memberships with the search scope display group which has an identifier equal to the input **displayGroupId**. MUST be an **ArrayOfInt** data type as specified in section [2.2.4.5](#).

#### 3.1.4.75.2.2 SetDisplayGroupListInfoResponse

The result data for the **SetDisplayGroupListInfo** WSDL operation.

```
<xs:element name="SetDisplayGroupListInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.75.3 Complex Types

None.

#### 3.1.4.75.4 Simple Types

None.

#### 3.1.4.75.5 Attributes

None.

#### 3.1.4.75.6 Groups

None.

#### 3.1.4.75.7 Attribute Groups

None.

#### 3.1.4.76 SetRuleInfo

This operation is used by the protocol client to set the details of an existing search scope rule.

```
<wsdl:operation name="SetRuleInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_SetRuleInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_SetRuleInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetRuleInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetRuleInfo\\_OutputMessage](#) response message.

- The protocol client MUST specify the search scope rule information that needs to be updated.
- On receipt the protocol server checks if the caller has the right privileges to update search scope rule in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Then the protocol server checks if **RuleInfo** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server ensures **ruleInfo.FilterBehavior** MUST be of data type **ScopeRuleFilterBehavior** as specified in section [2.2.5.11](#). If it is not of valid type the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server MUST ensure if **ruleInfo.RuleType** is **ScopeRuleType.Url** then **ruleInfo.UrlRuleType** MUST be of data type **ScopeRuleType** as specified in section [2.2.5.12](#). If it is not of valid type the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server checks if the search scope rule with the specified unique identifier is defined in the protocol server. If yes, the protocol server MUST update the search scope rule with the information specified in the input message and increments the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer that has the search

scope rule, as noted on section [3.1.1.2](#). Otherwise, the protocol server MUST ignore the request and MUST NOT return a **FaultException<ExceptionDetail>** error message.

- On success, the protocol server MUST return the empty response message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.76.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.76.1.1

##### **ISearchSiteAdministrationServiceApplication\_SetRuleInfo\_InputMessage**

The request WSDL message for the **SetRuleInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfo
```

The SOAP body contains the **SetRuleInfo** element.

#### 3.1.4.76.1.2

##### **ISearchSiteAdministrationServiceApplication\_SetRuleInfo\_OutputMessage**

The response WSDL message for the **SetRuleInfo** WSDL operation.

The SOAP body contains the **SetRuleInfoResponse** element.

### 3.1.4.76.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.76.2.1 SetRuleInfo

The input data for the **SetRuleInfo** WSDL operation.

```
<xs:element name="SetRuleInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ruleInfo" nillable="true"
        xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q11:RuleInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ruleInfo:** Specifies the search scope rule information that MUST be updated. MUST be a **RuleInfo** data type as specified in section [2.2.4.23](#).

#### 3.1.4.76.2.2 SetRuleInfoResponse

The result data for the **SetRuleInfo** WSDL operation.

```

<xs:element name="SetRuleInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

### 3.1.4.76.3 Complex Types

None.

### 3.1.4.76.4 Simple Types

None.

### 3.1.4.76.5 Attributes

None.

### 3.1.4.76.6 Groups

None.

### 3.1.4.76.7 Attribute Groups

None.

### 3.1.4.77 SetScopeInfo

This operation is used by the protocol client to update details of a search scope defined in the protocol server.

```

<wsdl:operation name="SetScopeInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_SetScopeInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_SetScopeInfo_OutputMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetScopeInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetScopeInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the search scope information that MUST be updated.
- On receipt the protocol server checks if the caller has the right privileges to update search scopes in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Then the protocol server checks if **ScopesInfo** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

- Next Protocol server MUST check **scopesInfo.CompilationType** data type which MUST be a **ScopeCompilationType** data type as specified in section [2.2.5.10](#). If it is not of valid type the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Next, the protocol server checks if the search scope with the unique identifier specified in the client request is defined in the protocol server. If yes, the protocol server updates the search scope with the information specified in the input message and increments the **ConsumerInfo.LastRefreshTimeStamp** of the search scope consumer that has the search scope, as noted on section [3.1.1.2](#). Otherwise, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the empty response message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.77.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.77.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetScopeInfo\_InputMessage**

The request WSDL message for the **SetScopeInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfo
```

The SOAP body contains the **SetScopeInfo** element.

#### 3.1.4.77.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetScopeInfo\_OutputMessage**

The response WSDL message for the **SetScopeInfo** WSDL operation.

The SOAP body contains the **SetScopeInfoResponse** element.

### 3.1.4.77.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.77.2.1 SetScopeInfo

The input data for the **SetScopeInfo** WSDL operation.

```
<xs:element name="SetScopeInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeInfo" nillable="true"
        xmlns:q81="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q81:ScopeInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



**scopeInfo**: Specifies the search scope information that MUST be updated. MUST be a **ScopeInfo** data type as specified in section [2.2.4.24](#). The protocol server MUST ignore the values of **CompilationState**, **IsDeleted**, **LastCompilationTime**, **LastModifiedBy**, **LastModifiedTime** and **SiteUrl** child elements. The protocol server MUST use the name of the currently logged on user calling this operation as the value of **LastModifiedBy** property.

### 3.1.4.77.2 SetScopeInfoResponse

The result data for the **SetScopeInfo** WSDL operation.

```
<xs:element name="SetScopeInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.77.3 Complex Types

None.

### 3.1.4.77.4 Simple Types

None.

### 3.1.4.77.5 Attributes

None.

### 3.1.4.77.6 Groups

None.

### 3.1.4.77.7 Attribute Groups

None.

### 3.1.4.78 SetScopesManagerInfo

This operation is used by the protocol client to set the details of a search scopes system in the search application.

```
<wsdl:operation name="SetScopesManagerInfo">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerInfo"
    message="tns:ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerInfoResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetScopesManagerInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetScopesManagerInfo\\_OutputMessage](#) response message.

- The protocol client MUST specify the details for the search scopes system to be updated on the protocol server.
- On receipt the protocol server checks if the caller has the right privileges to update search scopes in the protocol server. If not, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Protocol server MUST check if **scopesManagerInfo** is NULL. If yes, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.
- Protocol server MUST ignore all child elements of **scopesManagerInfo** except **scopesManagerInfo.CompilationScheduleType** and **scopesManagerInfo.CustomCompilationSchedule..**
- Protocol server MUST check **scopesManagerInfo.CompilationScheduleType** is of data type **ScopesCompilationScheduleType** as specified in section [2.2.5.13](#).
- On success, the protocol server MUST store the value of **scopesManagerInfo.CompilationScheduleType** sent by the protocol client.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.78.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.78.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetScopesManagerInfo\_InputMessage**

The request WSDL message for the **SetScopesManagerInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerInfo
```

The SOAP body contains the **SetScopesManagerInfo** element.

#### 3.1.4.78.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetScopesManagerInfo\_OutputMessage**

The response WSDL message for the **SetScopesManagerInfo** WSDL operation.

The SOAP body contains the **SetScopesManagerInfoResponse** element.

### 3.1.4.78.2 Elements

The following XML Schema element definitions are specific to this operation.

### 3.1.4.78.2.1 SetScopesManagerInfo

The input data for the **SetScopesManagerInfo** WSDL operation.

```
<xs:element name="SetScopesManagerInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopesManagerInfo" nillable="true"
        xmlns:q71="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
        ion" type="q71:ScopesManagerInfo"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**scopesManagerInfo**: Specifies the details for the search scopes system in the search application. MUST be of **ScopesManagerInfo** data type as specified in section [2.2.4.25](#).

### 3.1.4.78.2.2 SetScopesManagerInfoResponse

The result data for the **SetScopesManagerInfo** WSDL operation.

```
<xs:element name="SetScopesManagerInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.78.3 Complex Types

None.

### 3.1.4.78.4 Simple Types

None.

### 3.1.4.78.5 Attributes

None.

### 3.1.4.78.6 Groups

None.

### 3.1.4.78.7 Attribute Groups

None.

### 3.1.4.79 SetSpecialTermInfo

This operation is used by the protocol client to update details of a keyword defined for a given keyword consumer in the protocol server.

```
<wsdl:operation name="SetSpecialTermInfo">
```

```

    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_InputMessage"/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_OutputMessage"/>
    <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfoSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_SearchServiceApplicationFaultFault_FaultMessage"/>
</wsdl:operation>

```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetSpecialTermInfo\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetSpecialTermInfo\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the keyword and keyword consumer for which the information MUST be updated by the protocol server.
- On receipt the protocol server MUST update the keyword according to the information in the input keyword term. If the update causes any duplication on search term for any keywords or keyword synonyms, the protocol server MUST abort the operation and leave the state on the server unmodified, and return a **FaultException<ExceptionDetail>** error message.
- On success, the protocol server MUST return the empty response message.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.79.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.79.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetSpecialTermInfo\_InputMessage**

The request WSDL message for the **SetSpecialTermInfo** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfo
```

The SOAP body contains the **SetSpecialTermInfo** element.

#### 3.1.4.79.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetSpecialTermInfo\_OutputMessage**

The response WSDL message for the **SetSpecialTermInfo** WSDL operation.

The SOAP body contains the **SetSpecialTermInfoResponse** element.

### 3.1.4.79.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.79.2.1 SetSpecialTermInfo

The input data for the **SetSpecialTermInfo** WSDL operation.

```
<xs:element name="SetSpecialTermInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true"
        xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q26:Keyword"/>
      <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**term:** Specifies the keyword to be updated. MUST be a **Keyword** data type as specified in section [2.2.4.20](#).

**consumerGpId:** The **GUID** that identifies a keyword consumer. This element MUST NOT be null. The syntax is specified in section [2.2.5.4](#).

#### 3.1.4.79.2.2 SetSpecialTermInfoResponse

The result data for the **SetSpecialTermInfo** WSDL operation.

```
<xs:element name="SetSpecialTermInfoResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.79.3 Complex Types

None.

### 3.1.4.79.4 Simple Types

None.

### 3.1.4.79.5 Attributes

None.

### 3.1.4.79.6 Groups

None.

### 3.1.4.79.7 Attribute Groups

None.

### 3.1.4.80 SetUserPreferenceSerializeHelper

This operation is used by the protocol client to associate a preference with a user.

```
<wsdl:operation name="SetUserPreferenceSerializeHelper">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreferenceSerializeHelper"
    message="tns:ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_InputMessage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreferenceSerializeHelperResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_SetUserPreferenceSerializeHelper\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_SetUserPreferenceSerializeHelper\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the **userID** and **preference**, corresponding to the user and the preference that MUST be associated to the user.
- On receipt, the protocol server MUST check if the user and the **preference** are already associated with each other. If the association does not already exist, the protocol server MUST add an association between them. On success, the protocol server MUST increment the value of **preference.Version** by 1 and return this value.
- If the association between the user and the **preference** already exists, the protocol server MUST check if the version of the associated preference is same as **preference.Version**. If both the versions are same, the protocol server MUST increment **preference.Version** by 1 and MUST replace the already associated preference with the given **preference** (with incremented version). On success, the protocol server MUST return this new value of **preference.Version**.
- If both the versions are not same, the protocol server MUST NOT update the already associated preference and MUST return this original value of **preference.Version** (which is same as the initial value).
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.80.1 Messages

The following WSDL message definitions are specific to this operation.

##### 3.1.4.80.1.1

#### **ISearchSiteAdministrationServiceApplication\_SetUserPreferenceSerializeHelper\_InputMessage**

The request WSDL message for the **SetUserPreferenceSerializeHelper** WSDL operation.

The SOAP action value is:

http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreferenceSerializeHelper

The SOAP body contains the **SetUserPreferenceSerializeHelper** element.

### 3.1.4.80.1.2

#### **ISearchSiteAdministrationServiceApplication\_SetUserPreferenceSerializeHelper\_OutputMessage**

The response WSDL message for the **SetUserPreferenceSerializeHelper** WSDL operation.

The SOAP body contains the **SetUserPreferenceSerializeHelperResponse** element.

### 3.1.4.80.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.80.2.1 SetUserPreferenceSerializeHelper

The input data for the **SetUserPreferenceSerializeHelper** WSDL operation.

```
<xs:element name="SetUserPreferenceSerializeHelper">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="userID" nillable="true" type="xs:base64Binary"/>
      <xs:element minOccurs="0" name="preference" nillable="true"
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" type="q8:UserPreferenceSerializeHelper"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**userID:** Specifies the unique identifier of the user to which the **preference** has to be associated. Length of **userID** MUST be greater than 0 and not more than 512. MUST NOT be NULL.

**preference:** Specifies the preference to be associated with the given user. MUST be of type **UserPreferenceSerializeHelper**, as specified in section [2.2.4.30](#). MUST NOT be NULL.

#### 3.1.4.80.2.2 SetUserPreferenceSerializeHelperResponse

The result data for the **SetUserPreferenceSerializeHelper** WSDL operation.

```
<xs:element name="SetUserPreferenceSerializeHelperResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SetUserPreferenceSerializeHelperResult" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**SetUserPreferenceSerializeHelperResult:** Contains the version of the associated preference. If the **preference** is not associated with the given user, then this value MUST be same as **preference.Version**. Otherwise, it MUST be **preference.Version** + 1.

### 3.1.4.80.3 Complex Types

None.

### 3.1.4.80.4 Simple Types

None.

### 3.1.4.80.5 Attributes

None.

### 3.1.4.80.6 Groups

None.

### 3.1.4.80.7 Attribute Groups

None.

### 3.1.4.81 StartScopesCompilation

This operation is used by the protocol client to begin the search scope compilation in the protocol server.

```
<wsdl:operation name="StartScopesCompilation">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompil
ation"
message="tns:ISearchSiteAdministrationServiceApplication_StartScopesCompilation_InputMessage"
/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompil
ationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_StartScopesCompilation_OutputMessage
"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_StartScopesCompilation\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_StartScopesCompilation\\_OutputMessage](#) response message, as follows:

- On success the protocol server MUST begin compilation on all search scopes for which **ScopeInfo.CompilationState** is equal to **NeedsCompile** or **NeedsRecompile** as specified in section [2.2.4.24](#) and return an empty response message.
- On error the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

#### 3.1.4.81.1 Messages

The following WSDL message definitions are specific to this operation.



### 3.1.4.81.1.1

#### **ISearchSiteAdministrationServiceApplication\_StartScopesCompilation\_InputMessage**

The request WSDL message for the **StartScopesCompilation** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompilation
```

The SOAP body contains the **StartScopesCompilation** element.

### 3.1.4.81.1.2

#### **ISearchSiteAdministrationServiceApplication\_StartScopesCompilation\_OutputMessage**

The response WSDL message for the **StartScopesCompilation** WSDL operation.

The SOAP body contains the **StartScopesCompilationResponse** element.

### 3.1.4.81.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.81.2.1 StartScopesCompilation

The input data for the **StartScopesCompilation** WSDL operation.

```
<xs:element name="StartScopesCompilation">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

#### 3.1.4.81.2.2 StartScopesCompilationResponse

The result data for the **StartScopesCompilation** WSDL operation.

```
<xs:element name="StartScopesCompilationResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### 3.1.4.81.3 Complex Types

None.

### 3.1.4.81.4 Simple Types

None.

### 3.1.4.81.5 Attributes

None.

### 3.1.4.81.6 Groups

None.

### 3.1.4.81.7 Attribute Groups

None.

## 3.1.4.82 UpdateBestBetsOrder

This operation is used by the protocol client to update the order in which best bets show on the search results for a specified keyword.

```
<wsdl:operation name="UpdateBestBetsOrder">
  <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrder"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_InputMessage"/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrderResponse"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_OutputMessage"/>
</wsdl:operation>
```

The protocol client sends an [ISearchSiteAdministrationServiceApplication\\_UpdateBestBetsOrder\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_UpdateBestBetsOrder\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify a keyword and an array of best bet identifiers. Each of these identifiers MUST correspond to the **BestBet.id** element, as specified in section [2.2.4.15](#), of an existent best bet already associated with keyword in the protocol server. Each of those identifiers MUST appear in the array exactly one time and there MUST be no other members in it. The length of this array, thus, MUST be the same as the number of best bets associated with the keyword.
- The new order in which the protocol server displays best bets for the keyword MUST be updated to the order expressed by the array. The first best bet on the array MUST be the first one in the list of best bets of the keyword.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.82.1 Messages

The following WSDL message definitions are specific to this operation.

### 3.1.4.82.1.1

#### **ISearchSiteAdministrationServiceApplication\_UpdateBestBetsOrder\_InputMessage**

The request WSDL message for the **UpdateBestBetsOrder** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrder
```

The SOAP body contains the **UpdateBestBetsOrder** element.

### 3.1.4.82.1.2

#### **ISearchSiteAdministrationServiceApplication\_UpdateBestBetsOrder\_OutputMessage**

The response WSDL message for the **UpdateBestBetsOrder** WSDL operation.

The SOAP body contains the **UpdateBestBetsOrderResponse** element.

### 3.1.4.82.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.82.2.1 UpdateBestBetsOrder

The input data for the **UpdateBestBetsOrder** WSDL operation.

```
<xs:element name="UpdateBestBetsOrder">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="parentSpecialTerm" nillable="true"
        xmlns:q51="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration" type="q51:Keyword"/>
      <xs:element minOccurs="0" name="bestBetIds" nillable="true"
        xmlns:q52="http://schemas.microsoft.com/2003/10/Serialization/Arrays" type="q52:ArrayOfanyType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parentSpecialTerm:** The keyword for which the best bet order will be updated. This value MUST NOT be NULL and MUST be of data type **Keyword**, as specified in section [2.2.4.20](#).

**bestBetIds:** Array of best bet identifiers expressing the new order. This value MUST NOT be NULL and MUST be of type **ArrayOfanyType**, as specified in section [2.2.4.2](#). Each element in the array MUST be of the same type as **BestBet.id**, as specified in section [2.2.4.15](#).

#### 3.1.4.82.2.2 UpdateBestBetsOrderResponse

The result data for the **UpdateBestBetsOrder** WSDL operation.

```
<xs:element name="UpdateBestBetsOrderResponse">
  <xs:complexType>
```

```
<xs:sequence/>
</xs:complexType>
</xs:element>
```

### 3.1.4.82.3 Complex Types

None.

### 3.1.4.82.4 Simple Types

None.

### 3.1.4.82.5 Attributes

None.

### 3.1.4.82.6 Groups

None.

### 3.1.4.82.7 Attribute Groups

None.

## 3.1.4.83 UpdateLocationConfiguration

This operation is used by the protocol client to update the configuration properties of the federated location in the search application.

```
<wsdl:operation name="UpdateLocationConfiguration">
  <wsdl:input
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationCon
    figuration"
    message="tns:ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_InputMes
    sage"/>
  <wsdl:output
    wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationCon
    figurationResponse"
    message="tns:ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_OutputMe
    ssage"/>
</wsdl:operation>
```

This protocol client sends an [ISearchSiteAdministrationServiceApplication\\_UpdateLocationConfiguration\\_InputMessage](#) request message and the protocol server responds with an [ISearchSiteAdministrationServiceApplication\\_UpdateLocationConfiguration\\_OutputMessage](#) response message, as follows:

- The protocol client MUST specify the new federated location configuration properties as a **LocationConfiguration** data type as specified in section [2.2.4.21](#).
- On receipt, if the unique identifier of the input parameter **LocationConfiguration** is invalid (that is, less than 0), the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

- On success, the protocol server MUST update the configuration properties for the federated location.
- On error, the protocol server MUST return a **FaultException<ExceptionDetail>** error message.

### 3.1.4.83.1 Messages

The following WSDL message definitions are specific to this operation.

#### 3.1.4.83.1.1

#### **ISearchSiteAdministrationServiceApplication\_UpdateLocationConfiguration\_InputMessage**

The request WSDL message for the **UpdateLocationConfiguration** WSDL operation.

The SOAP action value is:

```
http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationConfiguration
```

The SOAP body contains the **UpdateLocationConfiguration** element.

#### 3.1.4.83.1.2

#### **ISearchSiteAdministrationServiceApplication\_UpdateLocationConfiguration\_OutputMessage**

The response WSDL message for the **UpdateLocationConfiguration** WSDL operation.

The SOAP body contains the **UpdateLocationConfigurationResponse** element.

### 3.1.4.83.2 Elements

The following XML Schema element definitions are specific to this operation.

#### 3.1.4.83.2.1 UpdateLocationConfiguration

The input data for the **UpdateLocationConfiguration** WSDL operation.

```
<xs:element name="UpdateLocationConfiguration">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="configuration" nillable="true"
        xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
        on" type="q1:LocationConfiguration"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**configuration:** This contains information about the configuration properties for the federated location. MUST be a **LocationConfiguration** data type as specified in section [2.2.4.21](#).

#### 3.1.4.83.2.2 UpdateLocationConfigurationResponse

The result data for the **UpdateLocationConfiguration** WSDL operation.

```
<xs:element name="UpdateLocationConfigurationResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

### **3.1.4.83.3 Complex Types**

None.

### **3.1.4.83.4 Simple Types**

None.

### **3.1.4.83.5 Attributes**

None.

### **3.1.4.83.6 Groups**

None.

### **3.1.4.83.7 Attribute Groups**

None.

## **3.1.5 Timer Events**

None.

## **3.1.6 Other Local Events**

None.

## 4 Protocol Examples

### 4.1 Create, Manage, and Retrieve Search Scopes and Display Groups

The creation, management, and retrieval of search scopes and search scope display groups usually involve the following operations:

#### 4.1.1 AddScope

To create a new scope, the protocol client might send the following message to the protocol server:

```
<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScope
    </a:Action>
    <a:MessageID>
      urn:uuid:16c69e83-16be-41f3-ae42-0de5e78da41c
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        decfd664-cb10-4aaa-abbd-eea25ada8c92
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <AddScope xmlns="http://tempuri.org/">
      <scopeInfo

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
      <b:CompilationState>Empty</b:CompilationState>
      <b:CompilationType>AlwaysCompile</b:CompilationType>
      <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
      <b>Description>Description</b>Description>
      <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
      <b:Filter i:nil="true"></b:Filter>
```

```

    <b:Id>0</b:Id>
    <b:IsDeleted>>false</b:IsDeleted>
    <b>LastCompilationTime>0001-01-01T00:00:00</b>LastCompilationTime>
    <b>LastModifiedBy>username</b>LastModifiedBy>
    <b>LastModifiedTime>0001-01-01T00:00:00</b>LastModifiedTime>
    <b>Name>New Scope Example</b>Name>
    <b:SiteUrl>http://example.com</b:SiteUrl>
  </scopeInfo>
</AddScope>
</s:Body>
</s:Envelope>

```

And the protocol server might respond with the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScopeResponse
    </a:Action>
    <ActivityId>
      CorrelationId="b67b8425-10bf-4367-9c0c-69f2bf586b3a"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
        33b7429a-3b2e-498f-bbc9-7d746106b6c5
      </ActivityId>
    <a:RelatesTo>
      urn:uuid:16c69e83-16be-41f3-ae42-0de5e78da41c
    </a:RelatesTo>
    <o:Security
      s:mustUnderstand="1"
      xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-
1.0.xsd">
      <u:Timestamp u:Id="_0">
        <u:Created>2010-01-09T03:25:21.602Z</u:Created>
        <u:Expires>2010-01-09T03:30:21.602Z</u:Expires>
      </u:Timestamp>
    </o:Security>
  </s:Header>
  <s:Body>
    <AddScopeResponse xmlns="http://tempuri.org/">
      <AddScopeResult>5</AddScopeResult>
      <statusCode>0</statusCode>
    </AddScopeResponse>
  </s:Body>
</s:Envelope>

```

#### 4.1.2 AddDisplayGroup

To add a new search scope display group to the protocol server, the protocol client might send the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"

```



```

xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
<s:Header>
  <a:Action s:mustUnderstand="1">
    http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroup
  </a:Action>
  <a:MessageID>
    urn:uuid:352e978f-67f9-4543-b86c-a7154793fc0f
  </a:MessageID>
  <a:ReplyTo>
    <a:Address>
      http://www.w3.org/2005/08/addressing/anonymous
    </a:Address>
  </a:ReplyTo>
  <ServiceContext
    xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <correlationId>
      c3764e8b-c435-48e8-821e-51ace28155c3
    </correlationId>
    <language>en-US</language>
    <region>en-US</region>
    <siteSubscriptionId>
      00000000-0000-0000-0000-000000000000
    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <AddDisplayGroup xmlns="http://tempuri.org/">
    <displayGroupInfo

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"

    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:ConsumerName>
      496f265c-4758-4ac5-b14d-d02dfa131a64
    </b:ConsumerName>
    <b:DefaultScopeID>-1</b:DefaultScopeID>
    <b:Description>Description</b:Description>
    <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
    <b:Id>0</b:Id>
    <b:IsDeleted>>false</b:IsDeleted>
    <b:IsUndeletable>>false</b:IsUndeletable>
    <b>LastModifiedBy>username</b>LastModifiedBy>
    <b>LastModifiedTime>2010-01-09T03:25:57.5853323Z</b>LastModifiedTime>
    <b>Name>New Display Group Example</b>Name>
    <b:SiteUrl>http://example.com</b:SiteUrl>
    </displayGroupInfo>
  </AddDisplayGroup>
</s:Body>
</s:Envelope>

```

The protocol server might return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroupResponse
    </a:Action>
    <ActivityId
      CorrelationId="f10ae73a-5b67-4920-96c6-94fc241d79ed"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      3fa179f5-4904-4032-a520-a774653bd89c
    </ActivityId>
    <a:RelatesTo
      urn:uuid:352e978f-67f9-4543-b86c-a7154793fc0f
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <AddDisplayGroupResponse xmlns="http://tempuri.org/">
      <AddDisplayGroupResult>7</AddDisplayGroupResult>
      <statusCode>0</statusCode>
    </AddDisplayGroupResponse>
  </s:Body>
</s:Envelope>

```

### 4.1.3 SetScopeInfo

To update details of a search scope, the protocol client might send the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfo
    </a:Action>
    <a:MessageID
      urn:uuid:71c3e321-b0eb-4b08-a5a5-02b1b34d8040
    </a:MessageID>
    <a:ReplyTo
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId
        25d1b223-cd9a-4096-80d0-b317a59af075
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId
        00000000-0000-0000-0000-000000000000

```

```

    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <SetScopeInfo xmlns="http://tempuri.org/">
    <scopeInfo
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
        <b:CompilationState>Empty</b:CompilationState>
        <b:CompilationType>AlwaysCompile</b:CompilationType>
        <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
        <b>Description>Scope description</b>Description>
        <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
        <b:Filter i:nil="true"></b:Filter>
        <b:Id>5</b:Id>
        <b:IsDeleted>>false</b:IsDeleted>
        <b>LastCompilationTime>0001-01-01T00:00:00</b>LastCompilationTime>
        <b>LastModifiedBy>DOMAINNAME\username</b>LastModifiedBy>
        <b>LastModifiedTime>0001-01-01T00:00:00</b>LastModifiedTime>
        <b>Name>Scope Example</b>Name>
        <b:SiteUrl>http://example.com</b:SiteUrl>
      </scopeInfo>
    </SetScopeInfo>
  </s:Body>
</s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfoResponse
    </a:Action>
    <ActivityId
      CorrelationId="62e6751e-c1c4-44a8-a0c6-c2394dc9f998"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
        2c8caf16-62b4-438f-9938-a287f1bd2319
    </ActivityId>
    <a:RelatesTo
      urn:uuid:71c3e321-b0eb-4b08-a5a5-02b1b34d8040
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <SetScopeInfoResponse xmlns="http://tempuri.org/"></SetScopeInfoResponse>
  </s:Body>
</s:Envelope>

```

#### 4.1.4 SetDisplayGroupInfo

To update details of a search scope display group, the protocol client might send the message:

```
<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfo
    </a:Action>
    <a:MessageID>
      urn:uuid:b6e2c717-810d-4d2c-844d-f0bccde7afaf
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        c3764e8b-c435-48e8-821e-51ace28155c3
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <SetDisplayGroupInfo xmlns="http://tempuri.org/">
      <displayGroupInfo

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"

      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
      <b:DefaultScopeID>5</b:DefaultScopeID>
      <b:Description>Description</b:Description>
      <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
      <b:Id>7</b:Id>
      <b:IsDeleted>>false</b:IsDeleted>
      <b:IsUndeletable>>false</b:IsUndeletable>
      <b>LastModifiedBy>username</b>LastModifiedBy>
      <b>LastModifiedTime>2010-01-09T03:25:57.5853323Z</b>LastModifiedTime>
      <b>Name>Display Group Example</b>Name>
      <b:SiteUrl>http://example.com</b:SiteUrl>
    </displayGroupInfo>
  </SetDisplayGroupInfo>
</s:Body>
```

```
</s:Envelope>
```

The protocol server might return the message:

```
<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfoResponse
    </a:Action>
    <ActivityId
      CorrelationId="5b9430c5-0d5c-4499-9db4-974e512d6f31"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      19bcc5f0-1ae0-481e-98e8-eaffb35152c9
    </ActivityId>
    <a:RelatesTo>
      urn:uuid:b6e2c717-810d-4d2c-844d-f0bccde7afaf
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <SetDisplayGroupInfoResponse xmlns="http://tempuri.org/">
    </SetDisplayGroupInfoResponse>
  </s:Body>
</s:Envelope>
```

#### 4.1.5 GetScopeInfo

To retrieve information about a search scope, the protocol client might send the message:

```
<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfo
    </a:Action>
    <a:MessageID>
      urn:uuid:5e896357-6d8a-47d2-97eb-dc07c4f01804
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        15df273c-1708-41f4-a6ed-0b167cc82e07
      </correlationId>
    </ServiceContext>
  </s:Header>
  <s:Body>
  </s:Body>
</s:Envelope>
```

```

    <language>en-US</language>
    <region>en-US</region>
    <siteSubscriptionId>
      00000000-0000-0000-0000-000000000000
    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <GetScopeInfo xmlns="http://tempuri.org/">
    <scopeId>1</scopeId>
  </GetScopeInfo>
</s:Body>
</s:Envelope>

```

The protocol server might return a message such as this:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfoResponse
    </a:Action>
    <ActivityId
      CorrelationId="fe2eb364-b797-444a-9ef7-fc9d2fd5cad3"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      a3f25317-d6fa-4be6-bbbf-b7cef40c2bad
    </ActivityId>
    <a:RelatesTo
      urn:uuid:5e896357-6d8a-47d2-97eb-dc07c4f01804
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetScopeInfoResponse xmlns="http://tempuri.org/">
      <GetScopeInfoResult
        xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
            <b:CompilationState>Compiled</b:CompilationState>
            <b:CompilationType>AlwaysCompile</b:CompilationType>
            <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
            <b:Description>Search for everything available for searching</b:Description>
            <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
            <b:Filter i:nil="true"></b:Filter>
            <b:Id>1</b:Id>
            <b:IsDeleted>>false</b:IsDeleted>
            <b>LastCompilationTime>2010-01-08T18:00:56.317</b>LastCompilationTime>
            <b>LastModifiedBy>username</b>LastModifiedBy>
            <b>LastModifiedTime>2010-01-08T17:53:11.157</b>LastModifiedTime>
            <b>Name>All Sites</b>Name>
            <b:SiteUrl i:nil="true"></b:SiteUrl>

```

```

    </GetScopeInfoResult>
  </GetScopeInfoResponse>
</s:Body>
</s:Envelope>

```

#### 4.1.6 GetScopesForConsumer

To retrieve information about all the search scopes associated to a given search scope consumer, the protocol client might send a message such as this one:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumer
    </a:Action>
    <a:MessageID>
      urn:uuid:56ecf270-3a90-4a6d-bee1-89388ea7a338
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        8e2c202a-7ec3-4bfb-9922-e9bb0af57069
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <GetScopesForConsumer xmlns="http://tempuri.org/">
      <consumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</consumerName>
    </GetScopesForConsumer>
  </s:Body>
</s:Envelope>

```

The protocol server might then respond with the following message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"

```

```

xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action
      s:mustUnderstand="1">

http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumerResponse
    </a:Action>
    <ActivityId
      CorrelationId="807a78b3-88c8-42c5-b420-1caa46038ba8"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
        ed24ba4e-ab2f-4707-ae63-1a35248ba82f
    </ActivityId>
    <a:RelatesTo
      urn:uuid:56ecf270-3a90-4a6d-bee1-89388ea7a338
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetScopesForConsumerResponse xmlns="http://tempuri.org/">
      <GetScopesForConsumerResult

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:ScopeInfo>
          <b:AlternateResultsPage>peoplereults.aspx</b:AlternateResultsPage>
          <b:CompilationState>Compiled</b:CompilationState>
          <b:CompilationType>AlwaysCompile</b:CompilationType>
          <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
          <b>Description>Search for people.</b>Description>
          <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
          <b:Filter i:nil="true"></b:Filter>
          <b:Id>0</b:Id>
          <b:IsDeleted>>false</b:IsDeleted>
          <b>LastCompilationTime>2010-01-08T18:00:56.317</b>LastCompilationTime>
          <b>LastModifiedBy>username</b>LastModifiedBy>
          <b>LastModifiedTime>2010-01-08T17:53:11.15</b>LastModifiedTime>
          <b>Name>People</b>Name>
          <b:SiteUrl i:nil="true"></b:SiteUrl>
        </b:ScopeInfo>
        <b:ScopeInfo>
          <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
          <b:CompilationState>Compiled</b:CompilationState>
          <b:CompilationType>AlwaysCompile</b:CompilationType>
          <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
          <b>Description>Search for everything available for searching.</b>Description>
          <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
          <b:Filter i:nil="true"></b:Filter>
          <b:Id>1</b:Id>
          <b:IsDeleted>>false</b:IsDeleted>
          <b>LastCompilationTime>2010-01-08T18:00:56.317</b>LastCompilationTime>
          <b>LastModifiedBy>username</b>LastModifiedBy>
          <b>LastModifiedTime>2010-01-08T17:53:11.157</b>LastModifiedTime>
          <b>Name>All Sites</b>Name>
          <b:SiteUrl i:nil="true"></b:SiteUrl>
        </b:ScopeInfo>
        <b:ScopeInfo>
          <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
          <b:CompilationState>Empty</b:CompilationState>

```



```

    <b:CompilationType>AlwaysCompile</b:CompilationType>
    <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
    <b>Description>Everything that is to be omitted from all searches by
default.</b>Description>
    <b:DisplayInAdminUI>>false</b:DisplayInAdminUI>
    <b:Filter i:nil="true"></b:Filter>
    <b:Id>2</b:Id>
    <b:IsDeleted>>false</b:IsDeleted>
    <b>LastCompilationTime>0001-01-01T00:00:00</b>LastCompilationTime>
    <b>LastModifiedBy>username</b>LastModifiedBy>
    <b>LastModifiedTime>2010-01-08T17:53:11.16</b>LastModifiedTime>
    <b>Name>Global Query Exclusion</b>Name>
    <b:SiteUrl i:nil="true"></b:SiteUrl>
  </b:ScopeInfo>
  <b:ScopeInfo>
    <b:AlternateResultsPage i:nil="true"></b:AlternateResultsPage>
    <b:CompilationState>Empty</b:CompilationState>
    <b:CompilationType>AlwaysCompile</b:CompilationType>
    <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
    <b>Description>Sites whose ranks will be demoted in click-distance
calculation.</b>Description>
    <b:DisplayInAdminUI>>false</b:DisplayInAdminUI>
    <b:Filter i:nil="true"></b:Filter>
    <b:Id>3</b:Id>
    <b:IsDeleted>>false</b:IsDeleted>
    <b>LastCompilationTime>0001-01-01T00:00:00</b>LastCompilationTime>
    <b>LastModifiedBy>username</b>LastModifiedBy>
    <b>LastModifiedTime>2010-01-08T17:53:11.16</b>LastModifiedTime>
    <b>Name>Rank Demoted Sites</b>Name>
    <b:SiteUrl i:nil="true"></b:SiteUrl>
  </b:ScopeInfo>
</GetScopesForConsumerResult>
</GetScopesForConsumerResponse>
</s:Body>
</s:Envelope>

```

#### 4.1.7 GetDisplayGroupInfo

To retrieve information about a search scope display group, the protocol client might send the following message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfo
    </a:Action>
    <a:MessageID>
      urn:uuid:6a8e9dcb-33b0-4feb-82f8-32807ce00cee
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
  </s:Body>
</s:Envelope>

```

```

</a:ReplyTo>
<ServiceContext
  xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <correlationId>
    11ab82c3-5318-482f-b433-af94ad8a1fff4
  </correlationId>
  <language>en-US</language>
  <region>en-US</region>
  <siteSubscriptionId>
    00000000-0000-0000-0000-000000000000
  </siteSubscriptionId>
</ServiceContext>
<a:To s:mustUnderstand="1" u:Id="_1">
  http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
</a:To>
</s:Header>
<s:Body>
  <GetDisplayGroupInfo xmlns="http://tempuri.org/">
    <displayGroupId>7</displayGroupId>
  </GetDisplayGroupInfo>
</s:Body>
</s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfoResponse
    </a:Action>
    <ActivityId
      CorrelationId="98725121-15e3-4696-8d7b-751f9f50f7ab"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      628ce100-a483-4d1c-802a-1858alb7b64a
    </ActivityId>
    <a:RelatesTo>
      urn:uuid:6a8e9dcb-33b0-4feb-82f8-32807ce00cee
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetDisplayGroupInfoResponse xmlns="http://tempuri.org/">
      <GetDisplayGroupInfoResult
        xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
        n"
          xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:ConsumerName>496f265c-4758-4ac5-b14d-d02dfa131a64</b:ConsumerName>
          <b:DefaultScopeID>5</b:DefaultScopeID>
          <b:Description>Description</b:Description>
          <b:DisplayInAdminUI>true</b:DisplayInAdminUI>
          <b:Id>7</b:Id>
          <b:IsDeleted>>false</b:IsDeleted>

```

```

    <b:IsUndeletable>>false</b:IsUndeletable>
    <b>LastModifiedBy>DOMAINNAME\username</b>LastModifiedBy>
    <b>LastModifiedTime>2010-01-09T03:25:57.713</b>LastModifiedTime>
    <b>Name>New Display Group Example</b>Name>
    <b:SiteUrl i:nil="true"></b:SiteUrl>
  </GetDisplayGroupInfoResult>
</GetDisplayGroupInfoResponse>
</s:Body>
</s:Envelope>

```

## 4.2 Create and Manage Keywords and Best Bets

The following messages are typically involved in the creation and management of keywords and best bets:

### 4.2.1 AddSpecialTerm

To add a new keyword to a keyword consumer, the protocol client might send the following message to the protocol server:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTerm
    </a:Action>
    <a:MessageID>
      urn:uuid:af0a3170-3c8f-4e07-a237-5c791b8fa590
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        739a7c79-e9f7-4cc8-aa48-a10141fccf32
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <AddSpecialTerm xmlns="http://tempuri.org/">
      <term

```

```

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:contact i:nil="true"></b:contact>
      <b:definition i:nil="true"></b:definition>
      <b:endDate>9999-12-31T23:59:59.9999999</b:endDate>
      <b:id>-1</b:id>
      <b:reviewDate>9999-12-31T23:59:59.9999999</b:reviewDate>
      <b:startDate>2010-01-08T08:00:00</b:startDate>
      <b:term>New keyword</b:term>
    </term>
    <consumerGroupId>496f265c-4758-4ac5-b14d-d02dfa131a64</consumerGroupId>
  </AddSpecialTerm>
</s:Body>
</s:Envelope>

```

The protocol server might then return the following message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTermResponse
    </a:Action>
    <ActivityId
      CorrelationId="97aeb947-c3d6-494b-bc20-ece53ff4fb34"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      fc12fa48-6a43-4dff-8156-2a0ef5b549eb
    </ActivityId>
    <a:RelatesTo
      urn:uuid:af0a3170-3c8f-4e07-a237-5c791b8fa590
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <AddSpecialTermResponse xmlns="http://tempuri.org/">
      <term
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:contact i:nil="true"></b:contact>
      <b:definition i:nil="true"></b:definition>
      <b:endDate>9999-12-31T23:59:59.9999999</b:endDate>
      <b:id>2</b:id>
      <b:reviewDate>9999-12-31T23:59:59.9999999</b:reviewDate>
      <b:startDate>2010-01-08T08:00:00</b:startDate>
      <b:term>New keyword</b:term>
    </term>
  </AddSpecialTermResponse>
</s:Body>
</s:Envelope>

```

## 4.2.2 AddNewBestBet

To add a new best bet for a given keyword, the protocol client might send the following message to the protocol server:

```
<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBet
    </a:Action>
    <a:MessageID>
      urn:uuid:a8816db4-01de-49f4-a8c5-86bf27512388
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        739a7c79-e9f7-4cc8-aa48-a10141fccf32
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <AddNewBestBet xmlns="http://tempuri.org/">
      <bestBet

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"

      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:description>Description</b:description>
      <b:id>0</b:id>
      <b:title>Example Best Bet</b:title>
      <b:url>http://www.example.com/</b:url>
    </bestBet>
    <specialTerm

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"

      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:contact i:nil="true"></b:contact>
      <b:definition>Definition</b:definition>
      <b:endDate>9999-12-31T23:59:59.9999999</b:endDate>
      <b:id>2</b:id>
```

```

        <b:reviewDate>9999-12-31T23:59:59.9999999</b:reviewDate>
        <b:startDate>2010-01-08T08:00:00</b:startDate>
        <b:term>Keyword</b:term>
    </specialTerm>
    <order>1</order>
    <consumerGpId>496f265c-4758-4ac5-b14d-d02dfa131a64</consumerGpId>
</AddNewBestBet>
</s:Body>
</s:Envelope>

```

The protocol server might then return the following message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBetResponse
    </a:Action>
    <ActivityId
      CorrelationId="27e2c9ab-e7cd-47d8-9c2e-5950a5cf1053"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      3af1abb2-8863-45cb-a552-0259c0a53df0
    </ActivityId>
    <a:RelatesTo>
      urn:uuid:a8816db4-01de-49f4-a8c5-86bf27512388
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <AddNewBestBetResponse xmlns="http://tempuri.org/">
      <bestBet

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:description>Description</b:description>
        <b:id>2</b:id>
        <b:title>Example Best Bet</b:title>
        <b:url>http://www.example.com/</b:url>
      </bestBet>
    </AddNewBestBetResponse>
  </s:Body>
</s:Envelope>

```

### 4.2.3 UpdateBestBetsOrder

To change the order in which best bets are shown on the search results for a specified keyword, the protocol client might send the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">

```

```

<s:Header>
  <a:Action s:mustUnderstand="1">
    http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrder
  </a:Action>
  <a:MessageID>
    urn:uuid:38a03c2e-2b2f-4fe1-ab0b-15bd030a5ca4
  </a:MessageID>
  <a:ReplyTo>
    <a:Address>
      http://www.w3.org/2005/08/addressing/anonymous
    </a:Address>
  </a:ReplyTo>
  <ServiceContext
    xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <correlationId>
      739a7c79-e9f7-4cc8-aa48-a10141fccf32
    </correlationId>
    <language>en-US</language>
    <region>en-US</region>
    <siteSubscriptionId>
      00000000-0000-0000-0000-000000000000
    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <UpdateBestBetsOrder xmlns="http://tempuri.org/">
    <parentSpecialTerm
      xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:contact i:nil="true"></b:contact>
      <b:definition>Definition</b:definition>
      <b:endDate>9999-12-31T23:59:59.9999999</b:endDate>
      <b:id>2</b:id>
      <b:reviewDate>9999-12-31T23:59:59.9999999</b:reviewDate>
      <b:startDate>2010-01-08T08:00:00</b:startDate>
      <b:term>keyword</b:term>
    </parentSpecialTerm>
    <bestBetIds
      xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <b:anyType i:type="c:int" xmlns:c="http://www.w3.org/2001/XMLSchema">2</b:anyType>
    </bestBetIds>
  </UpdateBestBetsOrder>
</s:Body>
</s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"

```

```

    xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
    <s:Header>
        <a:Action s:mustUnderstand="1">
            http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrderResponse
        </a:Action>
        <ActivityId>
            CorrelationId="1fd35aad-0e3e-4b11-8cb1-be93a3803231"
            xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
                0ab2c8e4-b48c-4a08-8d53-92f3a00541b4
            </ActivityId>
            <a:RelatesTo>
                urn:uuid:38a03c2e-2b2f-4fe1-ab0b-15bd030a5ca4
            </a:RelatesTo>
        </s:Header>
        <s:Body>
            <UpdateBestBetsOrderResponse xmlns="http://tempuri.org/">
            </UpdateBestBetsOrderResponse>
        </s:Body>
    </s:Envelope>

```

#### 4.2.4 SetSpecialTermInfo

To update details of a keyword, the protocol client might send the following message to the protocol server:

```

<s:Envelope
    xmlns:s="http://www.w3.org/2003/05/soap-envelope"
    xmlns:a="http://www.w3.org/2005/08/addressing"
    xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
    <s:Header>
        <a:Action s:mustUnderstand="1">
            http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfo
        </a:Action>
        <a:MessageID>
            urn:uuid:e2065241-2c3e-49a9-a633-8fe82defb819
        </a:MessageID>
        <a:ReplyTo>
            <a:Address>
                http://www.w3.org/2005/08/addressing/anonymous
            </a:Address>
        </a:ReplyTo>
        <ServiceContext
            xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
            xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <correlationId>
                739a7c79-e9f7-4cc8-aa48-a10141fccf32
            </correlationId>
            <language>en-US</language>
            <region>en-US</region>
            <siteSubscriptionId>
                00000000-0000-0000-0000-000000000000
            </siteSubscriptionId>
        </ServiceContext>
        <a:To s:mustUnderstand="1" u:Id="_1">

```



```

    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <SetSpecialTermInfo xmlns="http://tempuri.org/">
    <term
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:contact i:nil="true"></b:contact>
        <b:definition>Definition</b:definition>
        <b:endDate>9999-12-31T23:59:59.9999999</b:endDate>
        <b:id>2</b:id>
        <b:reviewDate>9999-12-31T23:59:59.9999999</b:reviewDate>
        <b:startDate>2010-01-08T08:00:00</b:startDate>
        <b:term>keyword</b:term>
      </term>
      <consumerGpId>496f265c-4758-4ac5-b14d-d02dfa131a64</consumerGpId>
    </SetSpecialTermInfo>
  </s:Body>
</s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfoResponse
    </a:Action>
    <ActivityId
      CorrelationId="0f48d1e9-5eef-4276-9820-ce29f2364316"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
540ed263-4b7b-4b72-9428-9f0cd4d6982d
    </ActivityId>
    <a:RelatesTo>
      urn:uuid:e2065241-2c3e-49a9-a633-8fe82defb819
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <SetSpecialTermInfoResponse xmlns="http://tempuri.org/">
      </SetSpecialTermInfoResponse>
    </s:Body>
  </s:Envelope>

```

#### 4.2.5 SetBestBetInfo

To update details of a best bet, the protocol client might send the following message to the protocol server:

```

<s:Envelope

```

```

xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
<s:Header>
  <a:Action s:mustUnderstand="1">
    http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfo
  </a:Action>
  <a:MessageID>
    urn:uuid:8dd2f702-34b4-441f-9031-19663c1524d5
  </a:MessageID>
  <a:ReplyTo>
    <a:Address>
      http://www.w3.org/2005/08/addressing/anonymous
    </a:Address>
  </a:ReplyTo>
  <ServiceContext
    xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <correlationId>
      d77ae051-3869-4988-8c5d-4f379ca69ec5
    </correlationId>
    <language>en-US</language>
    <region>en-US</region>
    <siteSubscriptionId>
      00000000-0000-0000-0000-000000000000
    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <SetBestBetInfo xmlns="http://tempuri.org/">
    <bestBet

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:description>Description</b:description>
    <b:id>2</b:id>
    <b:title>Example Best Bet</b:title>
    <b:url>http://www.example.com/</b:url>
  </bestBet>
    <consumerGpId>496f265c-4758-4ac5-b14d-d02dfa131a64</consumerGpId>
  </SetBestBetInfo>
</s:Body>
</s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">

```

```

    http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfoResponse
  </a:Action>
  <ActivityId
    CorrelationId="2be02007-314d-453b-bd8d-7007d77ecc32"
    xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      8bfcd836-6eb9-4f50-843d-3fa4c3d14383
    </ActivityId>
  <a:RelatesTo
    urn:uuid:8dd2f702-34b4-441f-9031-19663c1524d5
  </a:RelatesTo>
</s:Header>
<s:Body>
  <SetBestBetInfoResponse xmlns="http://tempuri.org/">
  </SetBestBetInfoResponse>
</s:Body>
</s:Envelope>

```

## 4.2.6 GetSpecialTerm

To retrieve information about a keyword, the protocol client might send the following message to the protocol server:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTerm
    </a:Action>
    <a:MessageID>
      urn:uuid:73270ee9-f7ce-492a-abfd-40ff3ba5b65c
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        e8d1006a-f57d-40b4-872d-dde90019f432
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId>
        00000000-0000-0000-0000-000000000000
      </siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
    </a:To>
  </s:Header>
  <s:Body>
    <GetSpecialTerm xmlns="http://tempuri.org/">

```

```

    <term>Keyword</term>
    <consumerGroupId>
      496f265c-4758-4ac5-b14d-d02dfa131a64
    </consumerGroupId>
  </GetSpecialTerm>
</s:Body>
</s:Envelope>

```

The protocol server might return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermResponse
    </a:Action>
    <ActivityId
      CorrelationId="46297be4-a7de-4286-9736-9dd3a2dd9ecb"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      e5bfb727-3550-400c-a333-cfb897d3527c
    </ActivityId>
    <a:RelatesTo
      urn:uuid:73270ee9-f7ce-492a-abfd-40ff3ba5b65c
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetSpecialTermResponse xmlns="http://tempuri.org/">
      <GetSpecialTermResult

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:contact i:nil="true"></b:contact>
        <b:definition>Definition</b:definition>
        <b:endDate>9999-12-31T23:59:59.997</b:endDate>
        <b:id>2</b:id>
        <b:reviewDate>9999-12-31T23:59:59.997</b:reviewDate>
        <b:startDate>2010-01-08T08:00:00</b:startDate>
        <b:term>Keyword</b:term>
      </GetSpecialTermResult>
    </GetSpecialTermResponse>
  </s:Body>
</s:Envelope>

```

#### 4.2.7 GetBestBet

To retrieve a best bet for the specified keyword consumer, the protocol client might send the following message to the protocol server:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"

```

```

xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
<s:Header>
  <a:Action s:mustUnderstand="1">
    http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBet
  </a:Action>
  <a:MessageID>
    urn:uuid:90684be4-35cb-4b8b-b1ad-787870224d15
  </a:MessageID>
  <a:ReplyTo>
    <a:Address>
      http://www.w3.org/2005/08/addressing/anonymous
    </a:Address>
  </a:ReplyTo>
  <ServiceContext
    xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
    xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <correlationId>
      67bb48a3-9d8c-44b0-9437-defdded2adc2
    </correlationId>
    <language>en-US</language>
    <region>en-US</region>
    <siteSubscriptionId>
      00000000-0000-0000-0000-000000000000
    </siteSubscriptionId>
  </ServiceContext>
  <a:To s:mustUnderstand="1" u:Id="_1">
    http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc
  </a:To>
</s:Header>
<s:Body>
  <GetBestBet xmlns="http://tempuri.org/">
    <url>http://www.example.com/</url>
    <consumerGpId>
      496f265c-4758-4ac5-b14d-d02dfa131a64
    </consumerGpId>
  </GetBestBet>
</s:Body>
</s:Envelope>

```

The protocol server might then respond with the following message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetResponse
    </a:Action>
    <ActivityId
      CorrelationId="59098155-5531-46c3-b5e1-69cada2b62a4"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      90099d3c-1e97-4c9e-8bc9-032520d258c5
    </ActivityId>
    <a:RelatesTo>
      urn:uuid:90684be4-35cb-4b8b-b1ad-787870224d15
    </a:RelatesTo>
  </s:Header>

```

```

    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetBestBetResponse xmlns="http://tempuri.org/">
      <GetBestBetResult

xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administratio
n"

      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:description>Description</b:description>
        <b:id>2</b:id>
        <b:title>Example Best Bet</b:title>
        <b:url>http://www.example.com/</b:url>
      </GetBestBetResult>
    </GetBestBetResponse>
  </s:Body>
</s:Envelope>

```

### 4.3 Retrieve Federated Location Information

To retrieve information about the configurations of all the federated locations available in the search application, the following operation might be used:

#### 4.3.1 GetLocationConfigurations

The protocol client might send the request:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">

http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigurations
    </a:Action>
    <a:MessageID>
      urn:uuid:b3c03245-71c6-42d7-adbe-1021519a9f84
    </a:MessageID>
    <a:ReplyTo>
      <a:Address>
        http://www.w3.org/2005/08/addressing/anonymous
      </a:Address>
    </a:ReplyTo>
    <ServiceContext
      xmlns="http://schemas.microsoft.com/sharepoint/servicecontext"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <correlationId>
        00000000-0000-0000-0000-000000000000
      </correlationId>
      <language>en-US</language>
      <region>en-US</region>
      <siteSubscriptionId i:nil="true"></siteSubscriptionId>
    </ServiceContext>
    <a:To s:mustUnderstand="1" u:Id="_1">
      http://example.com:32843/dc46e19968e743728529b721db8c8c60/SearchService.svc

```

```

    </a:To>
  </s:Header>
  <s:Body>
    <GetLocationConfigurations xmlns="http://tempuri.org/">
      </GetLocationConfigurations>
    </s:Body>
  </s:Envelope>

```

The protocol server might then return the message:

```

<s:Envelope
  xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:a="http://www.w3.org/2005/08/addressing"
  xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <s:Header>
    <a:Action s:mustUnderstand="1">
      http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigurationsResponse
    </a:Action>
    <ActivityId
      CorrelationId="b7b2755d-7944-4bee-be1e-358dd4d29dae"
      xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">
      34e68588-868f-4f47-a17c-afa299a5e864
    </ActivityId>
    <a:RelatesTo
      urn:uuid:b3c03245-71c6-42d7-adbe-1021519a9f84
    </a:RelatesTo>
  </s:Header>
  <s:Body>
    <GetLocationConfigurationsResponse xmlns="http://tempuri.org/">
      <GetLocationConfigurationsResult
        xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administration"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:LocationConfiguration>
            <b:AdminDescription>
              This location provides unscoped results from the Local Search index.
            </b:AdminDescription>
            <b:AllowedSiteCollectionGuids
              i:nil="true"
              xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
            </b:AllowedSiteCollectionGuids>
            <b:AllowedSiteCollectionUrls
              i:nil="true"
              xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
            </b:AllowedSiteCollectionUrls>
            <b:AuthInfo>
              <b:AuthenticationType>LocalNTAuth</b:AuthenticationType>
              <b>Data i:nil="true"></b>Data>
            </b:AuthInfo>
            <b:Author i:nil="true"></b:Author>
            <b:ConnectionUrlTemplate>{searchTerms}</b:ConnectionUrlTemplate>
            <b:CreationDate>2010-01-08T17:54:21.013</b:CreationDate>
            <b>DescriptionXml i:nil="true"></b>DescriptionXml>
            <b:FullVisualization>

```

```

<b>Name>full</b>Name>
<b:Properties>
  <Columns>
    <Column Name="WorkId"/>
    <Column Name="Rank"/>
    <Column Name="Title"/>
    <Column Name="Author"/>
    <Column Name="Size"/>
    <Column Name="Path"/>
    <Column Name="Description"/>
    <Column Name="Write"/>
    <Column Name="SiteName"/>
    <Column Name="CollapsingStatus"/>
    <Column Name="HitHighlightedSummary"/>
    <Column Name="HitHighlightedProperties"/>
    <Column Name="ContentClass"/>
    <Column Name="IsDocument"/>
    <Column Name="PictureThumbnailURL"/>
    <Column Name="PopularSocialTags"/>
    <Column Name="PictureWidth"/>
    <Column Name="PictureHeight"/>
    <Column Name="DatePictureTaken"/>
    <Column Name="ServerRedirectedURL"/>

  </Columns>
</b:Properties>
<b:SampleData>
  <All_Results>
    <Result>
      <workid>1</workid>
      <rank>222</rank>
      <title>Title of document or web page</title>
      <author>Author of document or web page</author>
      <size>1025</size>
      <sitename>http://www.sample.com</sitename>
      <url>http://www.sample.com/folder/document.aspx</url>
      <imageurl>/_layouts/images/asp16.gif</imageurl>
      <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
      <write>December 26, 2004</write>
    </Result>
  </All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
      <xmp>
        <xsl:copy-of select="*" />
      </xmp>
    </xsl:template>
  </xsl:stylesheet>
</b:Xsl>
</b:FullVisualization>
<b:Id>3</b:Id>
<b:InternalName>LocalSearchIndex</b:InternalName>
<b:IsDeletable>>false</b:IsDeletable>
<b:IsPrefixPattern>>false</b:IsPrefixPattern>

```



```

    <b:IsRestrictedLocation>>false</b:IsRestrictedLocation>
    <b:KindsOfResults i:nil="true"></b:KindsOfResults>
    <b:Languages i:nil="true"
xmlns:c="http://schemas.datacontract.org/2004/07/System.Globalization"></b:Languages>
    <b>LastModifiedDate>2010-01-12T01:40:49.467</b>LastModifiedDate>
    <b:MoreLinkTemplate>results.aspx?k={searchTerms}</b:MoreLinkTemplate>
    <b>Name>Local Search Results</b>Name>
    <b:QueryReformatPattern i:nil="true"></b:QueryReformatPattern>
    <b:QueryRestriction i:nil="true"></b:QueryRestriction>
    <b:SummaryVisualization>
      <b>Name>summary</b>Name>
      <b:Properties>
        <Columns>
          <Column Name="title"/>
          <Column Name="hithighlightedsummary"/>
          <Column Name="hithighlightedproperties"/>
          <Column Name="path"/>
          <Column Name="description"/>
          <Column Name="contentclass"/>
        </Columns>
      </b:Properties>
      <b:SampleData>
        <All_Results>
          <Result>
            <title>Title of document or web page</title>
            <url>http://www.sample.com/folder/document.aspx</url>
            <imageurl>/_layouts/images/aspix16.gif</imageurl>
            <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
          </Result>
        </All_Results>
      </b:SampleData>
      <b:Xsl>
        <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
          <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
          <xsl:template match="/">
            <xmp>
              <xsl:copy-of select="*" />
            </xmp>
          </xsl:template>
        </xsl:stylesheet>
      </b:Xsl>
    </b:SummaryVisualization>
    <b:TopAnswerVisualization>
      <b>Name>topanswer</b>Name>
      <b:Properties>
        <Columns>
          <Column Name="title"/>
          <Column Name="hithighlightedsummary"/>
          <Column Name="hithighlightedproperties"/>
          <Column Name="path"/>
          <Column Name="description"/>
          <Column Name="contentclass"/>
        </Columns>
      </b:Properties>
      <b:SampleData>
        <All_Results>
          <Result>

```

```

        <title>Title of document or web page</title>
        <url>http://www.sample.com/folder/document.aspx</url>
        <imageurl>/_layouts/images/asp16.gif</imageurl>
        <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
    </Result>
  </All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
      <xmp>
        <xsl:copy-of select="*" />
      </xmp>
    </xsl:template>
  </xsl:stylesheet>
</b:Xsl>
</b:TopAnswerVisualization>
<b>Type>LocalSharepoint</b>Type>
<b:Version xmlns:c="http://schemas.datacontract.org/2004/07/System">
  <c:_Build>0</c:_Build>
  <c:_Major>1</c:_Major>
  <c:_Minor>0</c:_Minor>
  <c:_Revision>0</c:_Revision>
</b:Version>
<b:Visualizations
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <c:KeyValueOfstringVisualizationy6h3NzC8>
    <c:Key>full</c:Key>
    <c:Value>
      <b:Name>full</b:Name>
      <b:Properties>
        <Columns>
          <Column Name="WorkId"/>
          <Column Name="Rank"/>
          <Column Name="Title"/>
          <Column Name="Author"/>
          <Column Name="Size"/>
          <Column Name="Path"/>
          <Column Name="Description"/>
          <Column Name="Write"/>
          <Column Name="SiteName"/>
          <Column Name="CollapsingStatus"/>
          <Column Name="HitHighlightedSummary"/>
          <Column Name="HitHighlightedProperties"/>
          <Column Name="ContentClass"/>
          <Column Name="IsDocument"/>
          <Column Name="PictureThumbnailURL"/>
          <Column Name="PopularSocialTags"/>
          <Column Name="PictureWidth"/>
          <Column Name="PictureHeight"/>
          <Column Name="DatePictureTaken"/>
          <Column Name="ServerRedirectedURL"/>

        </Columns>
      </b:Properties>
    </c:Value>
  </c:KeyValueOfstringVisualizationy6h3NzC8>
</b:Visualizations>
</b:SampleData>

```

```

<All_Results>
  <Result>
    <workid>1</workid>
    <rank>222</rank>
    <title>Title of document or web page</title>
    <author>Author of document or web page</author>
    <size>1025</size>
    <sitename>http://www.sample.com</sitename>
    <url>http://www.sample.com/folder/document.aspx</url>
    <imageurl>/_layouts/images/asp16.gif</imageurl>
    <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
    <write>December 26, 2004</write>
  </Result>
</All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
  <xsl:template match="/">
    <xmp>
      <xsl:copy-of select="*" />
    </xmp>
  </xsl:template>
</xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
  <c:Key>summary</c:Key>
  <c:Value>
    <b:Name>summary</b:Name>
    <b:Properties>
      <Columns>
        <Column Name="title"/>
        <Column Name="hithighlightedsummary"/>
        <Column Name="hithighlightedproperties"/>
        <Column Name="path"/>
        <Column Name="description"/>
        <Column Name="contentclass"/>
      </Columns>
    </b:Properties>
  </b:SampleData>
  <All_Results>
    <Result>
      <title>Title of document or web page</title>
      <url>http://www.sample.com/folder/document.aspx</url>
      <imageurl>/_layouts/images/asp16.gif</imageurl>
      <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
    </Result>
  </All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

```

```

        <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
        <xsl:template match="/">
            <xmp>
                <xsl:copy-of select="*" />
            </xmp>
        </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
    <c:Key>topanswer</c:Key>
    <c:Value>
        <b:Name>topanswer</b:Name>
        <b:Properties>
            <Columns>
                <Column Name="title"/>
                <Column Name="hithighlightedsummary"/>
                <Column Name="hithighlightedproperties"/>
                <Column Name="path"/>
                <Column Name="description"/>
                <Column Name="contentclass"/>
            </Columns>
        </b:Properties>
        <b:SampleData>
            <All_Results>
                <Result>
                    <title>Title of document or web page</title>
                    <url>http://www.sample.com/folder/document.aspx</url>
                    <imageurl>/_layouts/images/asp16.gif</imageurl>
                    <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
                </Result>
            </All_Results>
        </b:SampleData>
    </b:Xsl>
    <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
        <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
        <xsl:template match="/">
            <xmp>
                <xsl:copy-of select="*" />
            </xmp>
        </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
</b:Visualizations>
<b:typeName i:nil="true"></b:typeName>
</b:LocationConfiguration>
<b:LocationConfiguration>
    <b:AdminDescription>This location provides unscoped people search results from the
Local SharePoint index.</b:AdminDescription>
    <b:AllowedSiteCollectionGuids i:nil="true"
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays"></b:AllowedSiteCollection
Guids>

```

```

    <b:AllowedSiteCollectionUrls i:nil="true"
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays"></b:AllowedSiteCollection
Urls>
  <b:AuthInfo>
    <b:AuthenticationType>LocalNTAuth</b:AuthenticationType>
    <b>Data i:nil="true"></b>Data>
  </b:AuthInfo>
  <b:Author i:nil="true"></b:Author>
  <b:ConnectionUrlTemplate>{searchTerms}</b:ConnectionUrlTemplate>
  <b:CreationDate>2010-01-08T17:54:21.033</b:CreationDate>
  <b>DescriptionXml i:nil="true"></b>DescriptionXml>
  <b:FullVisualization>
    <b:Name>full</b:Name>
    <b:Properties>
      <Columns>
        <Column Name="WorkId"/>
        <Column Name="UserProfile_GUID"/>
        <Column Name="AccountName"/>
        <Column Name="PreferredName" HitHighLight="true"/>
        <Column Name="YomiDisplayName" HitHighLight="true"/>
        <Column Name="JobTitle" HitHighLight="true"/>
        <Column Name="Department" HitHighLight="true"/>
        <Column Name="WorkPhone" HitHighLight="true"/>
        <Column Name="OfficeNumber" HitHighLight="true"/>
        <Column Name="PictureURL"/>
        <Column Name="HierarchyUrl"/>
        <Column Name="WorkEmail" HitHighLight="true"/>
        <Column Name="Path"/>
        <Column Name="HitHighlightedSummary"/>
        <Column Name="HitHighlightedProperties"/>
        <Column Name="Responsibility" HitHighLight="true"/>
        <Column Name="Skills" HitHighLight="true"/>
        <Column Name="SipAddress" HitHighLight="true"/>
        <Column Name="Schools" HitHighLight="true"/>
        <Column Name="PastProjects" HitHighLight="true"/>
        <Column Name="Interests" HitHighLight="true"/>
        <Column Name="OrgNames" HitHighLight="true"/>
        <Column Name="OrgUrls"/>
        <Column Name="OrgParentNames" HitHighLight="true"/>
        <Column Name="OrgParentUrls"/>
        <Column Name="Memberships" HitHighLight="true"/>
        <Column Name="AboutMe" HitHighLight="true"/>
        <Column Name="BaseOfficeLocation" HitHighLight="true"/>
        <Column Name="ServiceApplicationID"/>
        <Column Name="SocialDistance"/>
      </Columns>
    </b:Properties>
    <b:SampleData>
      <All_Results>
        <Result>
          <id>1</id>
          <userprofile_guid>E5FD8056-CECD-44EE-ACB3-8E7B1144AA2D</userprofile_guid>
          <preferredname>Title of document or web page</preferredname>
          <jobtitle>Display property #1</jobtitle>
          <workphone>Display property #2</workphone>
          <officenum>Display property #3</officenum>
          <workemail>sampleaccount@sampledomain.com</workemail>
        </Result>
      </All_Results>
    </b:SampleData>
  </b:FullVisualization>
  <b:Url>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</b:Url>

```

```

<urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampledo
main%5Csampleaccount</urlEncoded>
    <hithighlightedsummary>
        This is the summary of the document or web page. The summary is generated
        from the original document based on matches with query terms. In some cases, the summary is a
        description provided by the author.
    </hithighlightedsummary>
    <hithighlightedproperties>
        <HHTitle></HHTitle>

<HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</HHUrl
>
    <preferredname hashh="0">
        Title of document or web page
    </preferredname>
    <jobtitle hashh="0">Display property #1</jobtitle>
    <workphone hashh="0">Display property #2</workphone>
    <officenummer hashh="0">Display property #3</officenummer>
    <workemail hashh="0">sampleaccount@sampledomain.com</workemail>
    <responsibility hashh="0">Display property #4</responsibility>
    <responsibility hashh="0">Display property #5</responsibility>
</hithighlightedproperties>
    <responsibility_multival>Display property #4</responsibility_multival>
    <responsibility_multival>Display property #5</responsibility_multival>
    <responsibility>Display property #4;Display property #5</responsibility>
    <imageurl imageurldescription="File with extension:
asp">/_layouts/images/html16.gif</imageurl>
    </Result>
    </All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
        <xmp>
            <xsl:copy-of select="*" />
        </xmp>
    </xsl:template>
</xsl:stylesheet>
</b:Xsl>
</b:FullVisualization>
<b:Id>4</b:Id>
<b:InternalName>LocalPeopleSearchIndex</b:InternalName>
<b:IsDeletable>>false</b:IsDeletable>
<b:IsPrefixPattern>>false</b:IsPrefixPattern>
<b:IsRestrictedLocation>>false</b:IsRestrictedLocation>
<b:KindsOfResults i:nil="true"></b:KindsOfResults>
<b:Languages i:nil="true"
xmlns:c="http://schemas.datacontract.org/2004/07/System.Globalization"></b:Languages>
<b>LastModifiedDate>2010-01-12T01:51:49.457</b>LastModifiedDate>
<b:MoreLinkTemplate>peoplereults.aspx?k={searchTerms}</b:MoreLinkTemplate>
<b>Name>Local People Search Results</b>Name>
<b:QueryReformatPattern i:nil="true"></b:QueryReformatPattern>
<b:QueryRestriction>scope:"People"</b:QueryRestriction>
<b:SummaryVisualization>
    <b>Name>summary</b>Name>
    <b:Properties>
        <Columns>
            <Column Name="WorkId"/>

```

```

    <Column Name="UserProfile_GUID"/>
    <Column Name="AccountName"/>
    <Column Name="PreferredName" HitHighLight="true"/>
    <Column Name="YomiDisplayName" HitHighLight="true"/>
    <Column Name="JobTitle" HitHighLight="true"/>
    <Column Name="Department" HitHighLight="true"/>
    <Column Name="WorkPhone" HitHighLight="true"/>
    <Column Name="OfficeNumber" HitHighLight="true"/>
    <Column Name="PictureURL"/>
    <Column Name="HierarchyUrl"/>
    <Column Name="WorkEmail" HitHighLight="true"/>
    <Column Name="Path"/>
    <Column Name="HitHighlightedSummary"/>
    <Column Name="HitHighlightedProperties"/>
    <Column Name="Responsibility" HitHighLight="true"/>
    <Column Name="Skills" HitHighLight="true"/>
    <Column Name="SipAddress" HitHighLight="true"/>
    <Column Name="Schools" HitHighLight="true"/>
    <Column Name="PastProjects" HitHighLight="true"/>
    <Column Name="Interests" HitHighLight="true"/>
    <Column Name="OrgNames" HitHighLight="true"/>
    <Column Name="OrgUrls"/>
    <Column Name="OrgParentNames" HitHighLight="true"/>
    <Column Name="OrgParentUrls"/>
    <Column Name="Memberships" HitHighLight="true"/>
    <Column Name="AboutMe" HitHighLight="true"/>
    <Column Name="BaseOfficeLocation" HitHighLight="true"/>
    <Column Name="ServiceApplicationID"/>
    <Column Name="SocialDistance"/>
  </Columns>
</b:Properties>
<b:SampleData>
  <All_Results>
    <Result>
      <id>1</id>
      <userprofile_guid>E5FD8056-CECD-44EE-ACB3-8E7B1144AA2D</userprofile_guid>
      <preferredname>Title of document or web page</preferredname>
      <jobtitle>Display property #1</jobtitle>
      <workphone>Display property #2</workphone>
      <officenum>Display property #3</officenum>
      <workemail>sampleaccount@sampledomain.com</workemail>

      <url>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</url>

      <urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampledo
      main%5Csampleaccount</urlEncoded>
      <hithighlightedsummary>
        This is the summary of the document or web page. The summary is generated
        from the original document based on matches with query terms. In some cases, the summary is a
        description provided by the author.
      </hithighlightedsummary>
      <hithighlightedproperties>
        <HHTitle></HHTitle>

      <HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</HHUrl
      >
      <preferredname hashh="0">
        Title of document or web page
      </preferredname>

```

```

        <jobtitle hashh="0">Display property #1</jobtitle>
        <workphone hashh="0">Display property #2</workphone>
        <officenummer hashh="0">Display property #3</officenummer>
        <workemail hashh="0">sampleaccount@sampldomain.com</workemail>
        <responsibility hashh="0">Display property #4</responsibility>
        <responsibility hashh="0">Display property #5</responsibility>
    </hithighlightedproperties>
    <responsibility_multival>Display property #4</responsibility_multival>
    <responsibility_multival>Display property #5</responsibility_multival>
    <responsibility>Display property #4;Display property #5</responsibility>
    <imageurl imageurldescription="File with extension:
asp.aspx"/_layouts/images/html16.gif</imageurl>
</Result>
</All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
        <xmp>
            <xsl:copy-of select="*" />
        </xmp>
    </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</b:SummaryVisualization>
<b:TopAnswerVisualization>
    <b:Name>topanswer</b:Name>
    <b:Properties>
        <Columns>
            <Column Name="WorkId" />
            <Column Name="UserProfile_GUID" />
            <Column Name="AccountName" />
            <Column Name="PreferredName" HitHighLight="true" />
            <Column Name="YomiDisplayName" HitHighLight="true" />
            <Column Name="JobTitle" HitHighLight="true" />
            <Column Name="Department" HitHighLight="true" />
            <Column Name="WorkPhone" HitHighLight="true" />
            <Column Name="OfficeNumber" HitHighLight="true" />
            <Column Name="PictureURL" />
            <Column Name="HierarchyUrl" />
            <Column Name="WorkEmail" HitHighLight="true" />
            <Column Name="Path" />
            <Column Name="HitHighlightedSummary" />
            <Column Name="HitHighlightedProperties" />
            <Column Name="Responsibility" HitHighLight="true" />
            <Column Name="Skills" HitHighLight="true" />
            <Column Name="SipAddress" HitHighLight="true" />
            <Column Name="Schools" HitHighLight="true" />
            <Column Name="PastProjects" HitHighLight="true" />
            <Column Name="Interests" HitHighLight="true" />
            <Column Name="OrgNames" HitHighLight="true" />
            <Column Name="OrgUrls" />
            <Column Name="OrgParentNames" HitHighLight="true" />
            <Column Name="OrgParentUrls" />
            <Column Name="Memberships" HitHighLight="true" />
            <Column Name="AboutMe" HitHighLight="true" />
            <Column Name="BaseOfficeLocation" HitHighLight="true" />
            <Column Name="ServiceApplicationID" />

```



```

        <Column Name="SocialDistance"/>
    </Columns>
</b:Properties>
<b:SampleData>
    <All_Results>
        <Result>
            <id>1</id>
            <userprofile_guid>E5FD8056-CECD-44EE-ACB3-8E7B1144AA2D</userprofile_guid>
            <preferredname>Title of document or web page</preferredname>
            <jobtitle>Display property #1</jobtitle>
            <workphone>Display property #2</workphone>
            <officenumber>Display property #3</officenumber>
            <workemail>sampleaccount@sampldomain.com</workemail>

<url>http://www.sample.com/MySite/Person.aspx?accountname=sampldomain\samleaccount</url>

<urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampldo
main%5Csamleaccount</urlEncoded>
    <hithighlightedsummary>
        This is the summary of the document or web page. The summary is generated
        from the original document based on matches with query terms. In some cases, the summary is a
        description provided by the author.
    </hithighlightedsummary>
    <hithighlightedproperties>
        <HHTitle></HHTitle>

<HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampldomain\samleaccount</HHUrl
>

    <preferredname hashh="0">
        Title of document or web page
    </preferredname>
    <jobtitle hashh="0">Display property #1</jobtitle>
    <workphone hashh="0">Display property #2</workphone>
    <officenumber hashh="0">Display property #3</officenumber>
    <workemail hashh="0">sampleaccount@sampldomain.com</workemail>
    <responsibility hashh="0">Display property #4</responsibility>
    <responsibility hashh="0">Display property #5</responsibility>
    </hithighlightedproperties>
    <responsibility_multival>Display property #4</responsibility_multival>
    <responsibility_multival>Display property #5</responsibility_multival>
    <responsibility>Display property #4;Display property #5</responsibility>
    <imageurl imageurldescription="File with extension:
asp">/_layouts/images/html16.gif</imageurl>
    </Result>
</All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
        <xmp>
            <xsl:copy-of select="*" />
        </xmp>
    </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</b:TopAnswerVisualization>
<b:Type>LocalSharepoint</b:Type>
<b:Version xmlns:c="http://schemas.datacontract.org/2004/07/System">
    <c:_Build>0</c:_Build>

```

```

    <c:_Major>1</c:_Major>
    <c:_Minor>0</c:_Minor>
    <c:_Revision>0</c:_Revision>
  </b:Version>
  <b:Visualizations
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
    <c:KeyValueOfstringVisualizationy6h3NzC8>
      <c:Key>full</c:Key>
      <c:Value>
        <b:Name>full</b:Name>
        <b:Properties>
          <Columns>
            <Column Name="WorkId"/>
            <Column Name="UserProfile_GUID"/>
            <Column Name="AccountName"/>
            <Column Name="PreferredName" HitHighLight="true"/>
            <Column Name="YomiDisplayName" HitHighLight="true"/>
            <Column Name="JobTitle" HitHighLight="true"/>
            <Column Name="Department" HitHighLight="true"/>
            <Column Name="WorkPhone" HitHighLight="true"/>
            <Column Name="OfficeNumber" HitHighLight="true"/>
            <Column Name="PictureURL"/>
            <Column Name="HierarchyUrl"/>
            <Column Name="WorkEmail" HitHighLight="true"/>
            <Column Name="Path"/>
            <Column Name="HitHighlightedSummary"/>
            <Column Name="HitHighlightedProperties"/>
            <Column Name="Responsibility" HitHighLight="true"/>
            <Column Name="Skills" HitHighLight="true"/>
            <Column Name="SipAddress" HitHighLight="true"/>
            <Column Name="Schools" HitHighLight="true"/>
            <Column Name="PastProjects" HitHighLight="true"/>
            <Column Name="Interests" HitHighLight="true"/>
            <Column Name="OrgNames" HitHighLight="true"/>
            <Column Name="OrgUrls"/>
            <Column Name="OrgParentNames" HitHighLight="true"/>
            <Column Name="OrgParentUrls"/>
            <Column Name="Memberships" HitHighLight="true"/>
            <Column Name="AboutMe" HitHighLight="true"/>
            <Column Name="BaseOfficeLocation" HitHighLight="true"/>
            <Column Name="ServiceApplicationID"/>
            <Column Name="SocialDistance"/>
          </Columns>
        </b:Properties>
        <b:SampleData>
          <All_Results>
            <Result>
              <id>1</id>
              <userprofile_guid>E5FD8056-CECD-44EE-ACB3-
8E7B1144AA2D</userprofile_guid>
              <preferredname>Title of document or web page</preferredname>
              <jobtitle>Display property #1</jobtitle>
              <workphone>Display property #2</workphone>
              <officenumber>Display property #3</officenumber>
              <workemail>sampleaccount@sampldomain.com</workemail>

              <url>http://www.sample.com/MySite/Person.aspx?accountname=sampldomain\sampleaccount</url>
            </Result>
          </All_Results>
        </b:SampleData>
      </c:Value>
    </c:KeyValueOfstringVisualizationy6h3NzC8>
  </b:Visualizations>

```

```

<urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampledo
main%5Csampleaccount</urlEncoded>
  <hithighlightedsummary>
    This is the summary of the document or web page. The summary is
    generated from the original document based on matches with query terms. In some cases, the
    summary is a description provided by the author.
  </hithighlightedsummary>
  <hithighlightedproperties>
    <HHTitle></HHTitle>

<HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</HHUrl
>
  <preferredname hashh="0">
    Title of document or web page
  </preferredname>
  <jobtitle hashh="0">Display property #1</jobtitle>
  <workphone hashh="0">Display property #2</workphone>
  <officenummer hashh="0">Display property #3</officenummer>
  <workemail hashh="0">sampleaccount@sampledomain.com</workemail>
  <responsibility hashh="0">Display property #4</responsibility>
  <responsibility hashh="0">Display property #5</responsibility>
</hithighlightedproperties>
<responsibility_multival>Display property #4</responsibility_multival>
<responsibility_multival>Display property #5</responsibility_multival>
<responsibility>Display property #4;Display property
#5</responsibility>
  <imageurl imageurldescription="File with extension:
asp">/_layouts/images/html16.gif</imageurl>
</Result>
</All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
  <xsl:template match="/">
    <xmp>
      <xsl:copy-of select="*" />
    </xmp>
  </xsl:template>
</xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
  <c:Key>summary</c:Key>
  <c:Value>
    <b>Name>summary</b>Name>
    <b:Properties>
      <Columns>
        <Column Name="WorkId"/>
        <Column Name="UserProfile_GUID"/>
        <Column Name="AccountName"/>
        <Column Name="PreferredName" HitHighLight="true"/>
        <Column Name="YomiDisplayName" HitHighLight="true"/>
        <Column Name="JobTitle" HitHighLight="true"/>
        <Column Name="Department" HitHighLight="true"/>
        <Column Name="WorkPhone" HitHighLight="true"/>
        <Column Name="OfficeNumber" HitHighLight="true"/>

```

```

    <Column Name="PictureURL"/>
    <Column Name="HierarchyUrl"/>
    <Column Name="WorkEmail" HitHighLight="true"/>
    <Column Name="Path"/>
    <Column Name="HitHighlightedSummary"/>
    <Column Name="HitHighlightedProperties"/>
    <Column Name="Responsibility" HitHighLight="true"/>
    <Column Name="Skills" HitHighLight="true"/>
    <Column Name="SipAddress" HitHighLight="true"/>
    <Column Name="Schools" HitHighLight="true"/>
    <Column Name="PastProjects" HitHighLight="true"/>
    <Column Name="Interests" HitHighLight="true"/>
    <Column Name="OrgNames" HitHighLight="true"/>
    <Column Name="OrgUrls"/>
    <Column Name="OrgParentNames" HitHighLight="true"/>
    <Column Name="OrgParentUrls"/>
    <Column Name="Memberships" HitHighLight="true"/>
    <Column Name="AboutMe" HitHighLight="true"/>
    <Column Name="BaseOfficeLocation" HitHighLight="true"/>
    <Column Name="ServiceApplicationID"/>
    <Column Name="SocialDistance"/>
  </Columns>
</b:Properties>
<b:SampleData>
  <All_Results>
    <Result>
      <id>1</id>
      <userprofile_guid>E5FD8056-CECD-44EE-ACB3-
8E7B1144AA2D</userprofile_guid>
      <preferredname>Title of document or web page</preferredname>
      <jobtitle>Display property #1</jobtitle>
      <workphone>Display property #2</workphone>
      <officenum>Display property #3</officenum>
      <workemail>sampleaccount@sampledomain.com</workemail>

      <url>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</url>

      <urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampledo
main%5Csampleaccount</urlEncoded>
      <hithighlightedsummary>
        This is the summary of the document or web page. The summary is
generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.
      </hithighlightedsummary>
      <hithighlightedproperties>
        <HHTitle></HHTitle>

      <HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampledomain\sampleaccount</HHUrl
>

      <preferredname hashh="0">
        Title of document or web page
      </preferredname>
      <jobtitle hashh="0">Display property #1</jobtitle>
      <workphone hashh="0">Display property #2</workphone>
      <officenum hashh="0">Display property #3</officenum>
      <workemail hashh="0">sampleaccount@sampledomain.com</workemail>
      <responsibility hashh="0">Display property #4</responsibility>
      <responsibility hashh="0">Display property #5</responsibility>
    </hithighlightedproperties>
    <responsibility_multival>Display property #4</responsibility_multival>
  </All_Results>
</b:SampleData>

```

```

        <responsibility_multival>Display property #5</responsibility_multival>
        <responsibility>Display property #4;Display property
#5</responsibility>
        <imageurl imageurldescription="File with extension:
aspx">/_layouts/images/html16.gif</imageurl>
    </Result>
  </All_Results>
</b:SampleData>
<b:Xsl>
  <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
      <xmp>
        <xsl:copy-of select="*" />
      </xmp>
    </xsl:template>
  </xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
  <c:Key>topanswer</c:Key>
  <c:Value>
    <b:Name>topanswer</b:Name>
    <b:Properties>
      <Columns>
        <Column Name="WorkId"/>
        <Column Name="UserProfile_GUID"/>
        <Column Name="AccountName"/>
        <Column Name="PreferredName" HitHighLight="true"/>
        <Column Name="YomiDisplayName" HitHighLight="true"/>
        <Column Name="JobTitle" HitHighLight="true"/>
        <Column Name="Department" HitHighLight="true"/>
        <Column Name="WorkPhone" HitHighLight="true"/>
        <Column Name="OfficeNumber" HitHighLight="true"/>
        <Column Name="PictureURL"/>
        <Column Name="HierarchyUrl"/>
        <Column Name="WorkEmail" HitHighLight="true"/>
        <Column Name="Path"/>
        <Column Name="HitHighlightedSummary"/>
        <Column Name="HitHighlightedProperties"/>
        <Column Name="Responsibility" HitHighLight="true"/>
        <Column Name="Skills" HitHighLight="true"/>
        <Column Name="SipAddress" HitHighLight="true"/>
        <Column Name="Schools" HitHighLight="true"/>
        <Column Name="PastProjects" HitHighLight="true"/>
        <Column Name="Interests" HitHighLight="true"/>
        <Column Name="OrgNames" HitHighLight="true"/>
        <Column Name="OrgUrls"/>
        <Column Name="OrgParentNames" HitHighLight="true"/>
        <Column Name="OrgParentUrls"/>
        <Column Name="Memberships" HitHighLight="true"/>
        <Column Name="AboutMe" HitHighLight="true"/>
        <Column Name="BaseOfficeLocation" HitHighLight="true"/>
        <Column Name="ServiceApplicationID"/>
        <Column Name="SocialDistance"/>
      </Columns>
    </b:Properties>
  </c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>

```

```

      <b:SampleData>
        <All_Results>
          <Result>
            <id>1</id>
            <userprofile_guid>E5FD8056-CECD-44EE-ACB3-
8E7B1144AA2D</userprofile_guid>
            <preferredname>Title of document or web page</preferredname>
            <jobtitle>Display property #1</jobtitle>
            <workphone>Display property #2</workphone>
            <officenumber>Display property #3</officenumber>
            <workemail>sampleaccount@sampldomain.com</workemail>

            <url>http://www.sample.com/MySite/Person.aspx?accountname=sampldomain\sampleaccount</url>

            <urlEncoded>http%3A%2F%2Fwww%2Esample%2Ecom%2FMySite%2FPerson%2Easpx%3Faccountname%3Dsampldo
            main%5Csamplaccount</urlEncoded>
            <hithighlightedsummary>
              This is the summary of the document or web page. The summary is
              generated from the original document based on matches with query terms. In some cases, the
              summary is a description provided by the author.
            </hithighlightedsummary>
            <hithighlightedproperties>
              <HHTitle></HHTitle>

            <HHUrl>http://www.sample.com/MySite/Person.aspx?accountname=sampldomain\sampleaccount</HHUrl
            >
              <preferredname hashh="0">
                Title of document or web page
              </preferredname>
              <jobtitle hashh="0">Display property #1</jobtitle>
              <workphone hashh="0">Display property #2</workphone>
              <officenumber hashh="0">Display property #3</officenumber>
              <workemail hashh="0">sampleaccount@sampldomain.com</workemail>
              <responsibility hashh="0">Display property #4</responsibility>
              <responsibility hashh="0">Display property #5</responsibility>
            </hithighlightedproperties>
            <responsibility_multival>Display property #4</responsibility_multival>
            <responsibility_multival>Display property #5</responsibility_multival>
            <responsibility>Display property #4;Display property
            #5</responsibility>
              <imageurl imageurldescription="File with extension:
            asp">/_layouts/images/html16.gif</imageurl>
            </Result>
          </All_Results>
        </b:SampleData>
      <b:Xsl>
        <xsl:stylesheet version="1.0"
            xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
          <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
          <xsl:template match="/">
            <xmp>
              <xsl:copy-of select="*" />
            </xmp>
          </xsl:template>
        </xsl:stylesheet>
      </b:Xsl>
    </c:Value>
  </c:KeyValueOfstringVisualizationy6h3NzC8>
</b:Visualizations>
<b:typeName i:nil="true"></b:typeName>

```

```

    </b:LocationConfiguration>
    <b:LocationConfiguration>
      <b:AdminDescription>This location provides unscoped results from the FAST Search
for SharePoint local index.</b:AdminDescription>
      <b:AllowedSiteCollectionGuids i:nil="true"
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays"></b:AllowedSiteCollection
Guids>
      <b:AllowedSiteCollectionUrls i:nil="true"
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays"></b:AllowedSiteCollection
Urls>
      <b:AuthInfo>
        <b:AuthenticationType>Anonymous</b:AuthenticationType>
        <b:Data i:nil="true"></b:Data>
      </b:AuthInfo>
      <b:Author i:nil="true"></b:Author>
      <b:ConnectionUrlTemplate>{searchTerms}</b:ConnectionUrlTemplate>
      <b:CreationDate>2010-01-08T17:54:21.277</b:CreationDate>
      <b>DescriptionXml i:nil="true"></b>DescriptionXml>
      <b:FullVisualization>
        <b:Name>full</b:Name>
        <b:Properties>
          <Columns>
            <Column Name="WorkId"/>
            <Column Name="Rank"/>
            <Column Name="Title"/>
            <Column Name="Author"/>
            <Column Name="Size"/>
            <Column Name="Path"/>
            <Column Name="Description"/>
            <Column Name="Write"/>
            <Column Name="SiteName"/>
            <Column Name="CollapsingStatus"/>
            <Column Name="HitHighlightedSummary"/>
            <Column Name="HitHighlightedProperties"/>
            <Column Name="ContentClass"/>
            <Column Name="IsDocument"/>
            <Column Name="PictureThumbnailURL"/>
            <Column Name="Url"/>
            <Column Name="ServerRedirectedUrl"/>
            <Column Name="FileExtension"/>
            <Column Name="SpSiteUrl"/>
            <Column Name="docvector"/>
            <Column Name="fcocount"/>
            <Column Name="fcoid"/>
          </Columns>
        </b:Properties>
        <b:SampleData>
          <All_Results>
            <Result>
              <workid>1</workid>
              <rank>222</rank>
              <title>Title of document or web page</title>
              <author>Author of document or web page</author>
              <size>1025</size>
              <sitename>http://www.sample.com</sitename>
              <url>http://www.sample.com/folder/document.aspx</url>
              <imageurl>/_layouts/images/asp16.gif</imageurl>
            </Result>
          </All_Results>
        </b:SampleData>
      </b:FullVisualization>
    </b:LocationConfiguration>
  </b:LocationConfiguration>

```

```

        <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
        <write>December 26, 2004</write>
    </Result>
</All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
        <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
        <xsl:template match="/">
            <xmp>
                <xsl:copy-of select="*" />
            </xmp>
        </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</b:FullVisualization>
<b:Id>5</b:Id>
<b:InternalName>FASTSearch</b:InternalName>
<b:IsDeletable>>false</b:IsDeletable>
<b:IsPrefixPattern>>false</b:IsPrefixPattern>
<b:IsRestrictedLocation>>false</b:IsRestrictedLocation>
<b:KindsOfResults i:nil="true"></b:KindsOfResults>
<b:Languages i:nil="true"
xmlns:c="http://schemas.datacontract.org/2004/07/System.Globalization"></b:Languages>
<b>LastModifiedDate>2010-01-12T01:52:32.207</b>LastModifiedDate>
<b:MoreLinkTemplate>results.aspx?k={searchTerms}</b:MoreLinkTemplate>
<b>Name>Local FAST Search Results</b>Name>
<b:QueryReformatPattern i:nil="true"></b:QueryReformatPattern>
<b:QueryRestriction i:nil="true"></b:QueryRestriction>
<b:SummaryVisualization>
    <b>Name>summary</b>Name>
    <b:Properties>
        <Columns>
            <Column Name="title"/>
            <Column Name="hithighlightedsummary"/>
            <Column Name="hithighlightedproperties"/>
            <Column Name="path"/>
            <Column Name="description"/>
            <Column Name="contentclass"/>
        </Columns>
    </b:Properties>
</b:SampleData>
    <All_Results>
        <Result>
            <title>Title of document or web page</title>
            <url>http://www.sample.com/folder/document.aspx</url>
            <imageurl>/_layouts/images/asp16.gif</imageurl>
            <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
        </Result>
    </All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
        <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
        <xsl:template match="/">

```



```

        <xmp>
          <xsl:copy-of select="*" />
        </xmp>
      </xsl:template>
    </xsl:stylesheet>
  </b:Xsl>
</b:SummaryVisualization>
<b:TopAnswerVisualization>
  <b:Name>topanswer</b:Name>
  <b:Properties>
    <Columns>
      <Column Name="title" />
      <Column Name="hithighlightedsummary" />
      <Column Name="hithighlightedproperties" />
      <Column Name="path" />
      <Column Name="description" />
      <Column Name="contentclass" />
    </Columns>
  </b:Properties>
  <b:SampleData>
    <All_Results>
      <Result>
        <title>Title of document or web page</title>
        <url>http://www.sample.com/folder/document.aspx</url>
        <imageurl>/_layouts/images/aspx16.gif</imageurl>
        <description>This is the summary of the document or web page. The summary
is generated from the original document based on matches with query terms. In some cases, the
summary is a description provided by the author.</description>
      </Result>
    </All_Results>
  </b:SampleData>
</b:Xsl>
  <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes" />
    <xsl:template match="/">
      <xmp>
        <xsl:copy-of select="*" />
      </xmp>
    </xsl:template>
  </xsl:stylesheet>
</b:Xsl>
</b:TopAnswerVisualization>
<b:Type>FASTSearch</b:Type>
<b:Version xmlns:c="http://schemas.datacontract.org/2004/07/System">
  <c:_Build>0</c:_Build>
  <c:_Major>1</c:_Major>
  <c:_Minor>0</c:_Minor>
  <c:_Revision>0</c:_Revision>
</b:Version>
<b:Visualizations
xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <c:KeyValueOfstringVisualizationy6h3NzC8>
    <c:Key>full</c:Key>
    <c:Value>
      <b:Name>full</b:Name>
      <b:Properties>
        <Columns>
          <Column Name="WorkId" />
          <Column Name="Rank" />

```

```

        <Column Name="Title"/>
        <Column Name="Author"/>
        <Column Name="Size"/>
        <Column Name="Path"/>
        <Column Name="Description"/>
        <Column Name="Write"/>
        <Column Name="SiteName"/>
        <Column Name="CollapsingStatus"/>
        <Column Name="HitHighlightedSummary"/>
        <Column Name="HitHighlightedProperties"/>
        <Column Name="ContentClass"/>
        <Column Name="IsDocument"/>
        <Column Name="PictureThumbnailURL"/>
        <Column Name="Url"/>
        <Column Name="ServerRedirectedUrl"/>
        <Column Name="FileExtension"/>
        <Column Name="SpSiteUrl"/>
        <Column Name="docvector"/>
        <Column Name="fcocount"/>
        <Column Name="fcoid"/>
    </Columns>
</b:Properties>
<b:SampleData>
    <All_Results>
        <Result>
            <workid>1</workid>
            <rank>222</rank>
            <title>Title of document or web page</title>
            <author>Author of document or web page</author>
            <size>1025</size>
            <sitename>http://www.sample.com</sitename>
            <url>http://www.sample.com/folder/document.aspx</url>
            <imageurl>/_layouts/images/asp16.gif</imageurl>
            <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
            <write>December 26, 2004</write>
        </Result>
    </All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
        <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
        <xsl:template match="/">
            <xmp>
                <xsl:copy-of select="*" />
            </xmp>
        </xsl:template>
    </xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
    <c:Key>summary</c:Key>
    <c:Value>
        <b:Name>summary</b:Name>
        <b:Properties>
            <Columns>

```

```

        <Column Name="title"/>
        <Column Name="hithighlightedsummary"/>
        <Column Name="hithighlightedproperties"/>
        <Column Name="path"/>
        <Column Name="description"/>
        <Column Name="contentclass"/>
    </Columns>
</b:Properties>
<b:SampleData>
    <All_Results>
        <Result>
            <title>Title of document or web page</title>
            <url>http://www.sample.com/folder/document.aspx</url>
            <imageurl>/_layouts/images/asp16.gif</imageurl>
            <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
        </Result>
    </All_Results>
</b:SampleData>
<b:Xsl>
    <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
    <xsl:template match="/">
        <xmp>
            <xsl:copy-of select="*" />
        </xmp>
    </xsl:template>
</xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
<c:KeyValueOfstringVisualizationy6h3NzC8>
    <c:Key>topanswer</c:Key>
    <c:Value>
        <b:Name>topanswer</b:Name>
        <b:Properties>
            <Columns>
                <Column Name="title"/>
                <Column Name="hithighlightedsummary"/>
                <Column Name="hithighlightedproperties"/>
                <Column Name="path"/>
                <Column Name="description"/>
                <Column Name="contentclass"/>
            </Columns>
        </b:Properties>
        <b:SampleData>
            <All_Results>
                <Result>
                    <title>Title of document or web page</title>
                    <url>http://www.sample.com/folder/document.aspx</url>
                    <imageurl>/_layouts/images/asp16.gif</imageurl>
                    <description>This is the summary of the document or web page. The
summary is generated from the original document based on matches with query terms. In some
cases, the summary is a description provided by the author.</description>
                </Result>
            </All_Results>
        </b:SampleData>

```

```
<b:Xsl>
  <xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" version="1.0" encoding="UTF-8" indent="yes"/>
  <xsl:template match="/">
    <xmp>
      <xsl:copy-of select="*" />
    </xmp>
  </xsl:template>
</xsl:stylesheet>
</b:Xsl>
</c:Value>
</c:KeyValueOfstringVisualizationy6h3NzC8>
</b:Visualizations>
<b:typeName i:nil="true"></b:typeName>
</b:LocationConfiguration>
</GetLocationConfigurationsResult>
<lastUpdate>42</lastUpdate>
<useCrawlProxy>>false</useCrawlProxy>
</GetLocationConfigurationsResponse>
</s:Body>
</s:Envelope>
```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

## 6 Appendix A: Full WSDL

For ease of implementation, the full WSDL and schema are provided in this appendix.

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://tempuri.org/"
xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
name="ISearchSiteAdministrationServiceApplication" targetNamespace="http://tempuri.org/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
ion" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:element name="UpdateLocationConfiguration">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" minOccurs="0" name="configuration" nillable="true" type="q1:LocationConfiguration" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="UpdateLocationConfigurationResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="PutLocationVisualization">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="id" type="xs:int" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="PutLocationVisualizationResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
      <xs:element name="DeleteLocationConfiguration">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="id" type="xs:int" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DeleteLocationConfigurationResponse">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
    </xs:schema>
  </wsdl:types>

```

```

        <xs:sequence>
          <xs:element minOccurs="0" name="DeleteLocationConfigurationResult"
type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetSharepointLocationVisualizations">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="id" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetSharepointLocationVisualizationsResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetSharepointLocationVisualizationsResult" nillable="true"
type="q3:ArrayOfKeyValueOfstringVisualizationy6h3NzC8" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLocationVisualizations">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="id" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLocationVisualizationsResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q4="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetLocationVisualizationsResult" nillable="true"
type="q4:ArrayOfKeyValueOfstringVisualizationy6h3NzC8" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLocationConfigurations">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetLocationConfigurationsResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" minOccurs="0" name="GetLocationConfigurationsResult" nillable="true"
type="q5:ArrayOfLocationConfiguration" />
          <xs:element minOccurs="0" name="lastUpdate" type="xs:long" />
          <xs:element minOccurs="0" name="useCrawlProxy" type="xs:boolean" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetProxyInfo">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>

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<xs:element name="GetProxyInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q6="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08" minOccurs="0"
name="GetProxyInfoResult" nillable="true" type="q6:SearchProxyInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetUserPreferenceSerializeHelper">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userID" nillable="true" type="xs:base64Binary" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetUserPreferenceSerializeHelperResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" minOccurs="0" name="GetUserPreferenceSerializeHelperResult" nillable="true"
type="q7:UserPreferenceSerializeHelper" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetUserPreferenceSerializeHelper">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="userID" nillable="true" type="xs:base64Binary" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetUserPreferenceSerializeHelperResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="SetUserPreferenceSerializeHelperResult"
type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSearchAlertManagerInfo">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSearchAlertManagerInfoResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q9="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08" minOccurs="0"
name="GetSearchAlertManagerInfoResult" nillable="true" type="q9:AlertManagerInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSearchAlertNotificationFormat">

```



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    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSearchAlertNotificationFormatResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetSearchAlertNotificationFormatResult"
nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRuleInfo">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="ruleId" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRuleInfoResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q10="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetRuleInfoResult" nillable="true" type="q10:RuleInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetRuleInfo">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q11="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="ruleInfo" nillable="true" type="q11:RuleInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetRuleInfoResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="AddDisplayGroup">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q12="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="displayGroupInfo" nillable="true" type="q12:DisplayGroupInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddDisplayGroupResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AddDisplayGroupResult" type="xs:int" />
        <xs:element minOccurs="0" name="statusCode" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

<xs:element name="DropDisplayGroup">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DropDisplayGroupResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q13="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetDisplayGroupInfoResult" nillable="true"
type="q13:DisplayGroupInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetDisplayGroupInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q14="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="displayGroupInfo" nillable="true" type="q14:DisplayGroupInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetDisplayGroupInfoResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupListInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="displayGroupId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupListInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q15="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetDisplayGroupListInfoResult" nillable="true" type="q15:ArrayOfint" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetDisplayGroupListInfo">

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    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="displayGroupId" type="xs:int" />
        <xs:element xmlns:q16="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="scopeIds" nillable="true" type="q16:ArrayOfint" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetDisplayGroupListInfoResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSpecialTerm">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="term" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="consumerGroupId" nillable="true" type="xs:string"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSpecialTermResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q17="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetSpecialTermResult" nillable="true" type="q17:Keyword" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddSpecialTerm">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q18="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="term" nillable="true" type="q18:Keyword" />
        <xs:element minOccurs="0" name="consumerGroupId" nillable="true" type="xs:string"
/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddSpecialTermResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q19="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="term" nillable="true" type="q19:Keyword" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSpecialTermsInfo">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q20="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="view" type="q20:KeywordView" />
        <xs:element
xmlns:q21="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="filter" type="q21:KeywordFilter" />

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        <xs:element minOccurs="0" name="value" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetSpecialTermsInfoResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q22="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetSpecialTermsInfoResult" nillable="true"
type="q22:ArrayOfKeyValueOfstringKeywordy6h3NzC8" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetSpecialTermsCount">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q23="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="view" type="q23:KeywordView" />
            <xs:element
xmlns:q24="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="filter" type="q24:KeywordFilter" />
            <xs:element minOccurs="0" name="value" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetSpecialTermsCountResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetSpecialTermsCountResult" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DropSpecialTerm">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q25="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="term" nillable="true" type="q25:Keyword" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DropSpecialTermResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="SetSpecialTermInfo">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q26="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="term" nillable="true" type="q26:Keyword" />
            <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetSpecialTermInfoResponse">

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    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetSpecialTermsInfoForBestBet">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q27="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentBestBet" nillable="true" type="q27:BestBet" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetSpecialTermsInfoForBestBetResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q28="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetSpecialTermsInfoForBestBetResult" nillable="true"
type="q28:ArrayOfKeyValueOfstringKeyworddy6h3NzC8" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetSpecialTermsCountForBestBet">
        <xs:complexType>
          <xs:sequence>
            <xs:element
xmlns:q29="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentBestBet" nillable="true" type="q29:BestBet" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetSpecialTermsCountForBestBetResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="GetSpecialTermsCountForBestBetResult"
type="xs:int" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetBestBet">
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI" />
              <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="GetBestBetResponse">
          <xs:complexType>
            <xs:sequence>
              <xs:element
xmlns:q30="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetBestBetResult" nillable="true" type="q30:BestBet" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element name="GetBestBetForSpecialTerm">
            <xs:complexType>
              <xs:sequence>
                <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI" />
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

        <xs:element
xmlns:q31="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q31:Keyword" />
        <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetBestBetForSpecialTermResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q32="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetBestBetForSpecialTermResult" nillable="true" type="q32:BestBet"
/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="AddNewBestBet">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q33="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="bestBet" nillable="true" type="q33:BestBet" />
                <xs:element
xmlns:q34="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="specialTerm" nillable="true" type="q34:Keyword" />
                    <xs:element minOccurs="0" name="order" type="xs:int" />
                    <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="AddNewBestBetResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q35="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="bestBet" nillable="true" type="q35:BestBet" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="AddBestBetLink">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q36="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="bestBet" nillable="true" type="q36:BestBet" />
                <xs:element
xmlns:q37="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q37:Keyword" />
                    <xs:element minOccurs="0" name="order" type="xs:int" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="AddBestBetLinkResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="RemoveBestBetLink">
    <xs:complexType>

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    <xs:sequence>
      <xs:element
xmlns:q38="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q38:Keyword" />
      <xs:element
xmlns:q39="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="bestBet" nillable="true" type="q39:BestBet" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RemoveBestBetLinkResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsInfoForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q40="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="st" nillable="true" type="q40:Keyword" />
      <xs:element xmlns:q41="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="bestBetIds" nillable="true" type="q41:ArrayOfanyType" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsInfoForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q42="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetBestBetsInfoForSpecialTermResult" nillable="true"
type="q42:ArrayOfKeyValueOfanyURIBestBety6h3NzC8" />
      <xs:element xmlns:q43="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="bestBetIds" nillable="true" type="q43:ArrayOfanyType" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsCountForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q44="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="st" nillable="true" type="q44:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsCountForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetBestBetsCountForSpecialTermResult"
type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsOrderInfoForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q45="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="st" nillable="true" type="q45:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsOrderInfoForSpecialTermResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q46="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetBestBetsOrderInfoForSpecialTermResult" nillable="true"
type="q46:ArrayOfanyType" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsInfo">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q47="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="filter" type="q47:BestBetFilter" />
            <xs:element minOccurs="0" name="value" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsInfoResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:q48="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetBestBetsInfoResult" nillable="true"
type="q48:ArrayOfKeyValueOfanyURIBestBetY6h3NzC8" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsCount">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q49="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="filter" type="q49:BestBetFilter" />
            <xs:element minOccurs="0" name="value" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetBestBetsCountResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetBestBetsCountResult" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetBestBetInfo">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q50="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="bestBet" nillable="true" type="q50:BestBet" />
            <xs:element minOccurs="0" name="consumerGpId" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>

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<xs:element name="SetBestBetInfoResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="UpdateBestBetsOrder">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q51="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q51:Keyword" />
      <xs:element xmlns:q52="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="bestBetIds" nillable="true" type="q52:ArrayOfanyType" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateBestBetsOrderResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonym">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="term" nillable="true" type="xs:string" />
      <xs:element
xmlns:q53="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q53:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonymResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q54="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetSynonymResult" nillable="true" type="q54:Synonym" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonymsCountForSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q55="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q55:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonymsCountForSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetSynonymsCountForSpecialTermResult"
type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddSynonym">
  <xs:complexType>
    <xs:sequence>

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    <xs:element
xmlns:q56="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="syn" nillable="true" type="q56:Synonym" />
    <xs:element
xmlns:q57="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q57:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddSynonymResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="DropSynonym">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q58="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="syn" nillable="true" type="q58:Synonym" />
      <xs:element
xmlns:q59="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q59:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DropSynonymResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonymsInfoSpecialTerm">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q60="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="parentSpecialTerm" nillable="true" type="q60:Keyword" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetSynonymsInfoSpecialTermResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q61="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetSynonymsInfoSpecialTermResult" nillable="true"
type="q61:ArrayOfKeyValueOfstringSynonymy6h3NzC8" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLastLocationConfigurationUpdate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="oldUpdateStamp" type="xs:long" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetLastLocationConfigurationUpdateResponse">
  <xs:complexType>
    <xs:sequence>

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        <xs:element minOccurs="0" name="GetLastLocationConfigurationUpdateResult"
type="xs:long" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetLocationDescription">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="id" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetLocationDescriptionResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetLocationDescriptionResult" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddNewLocationConfiguration">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q62="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="configuration" nillable="true" type="q62:LocationConfiguration" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="AddNewLocationConfigurationResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetSearchApplicationName">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetSearchApplicationNameResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetSearchApplicationNameResult" nillable="true"
type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetConsumerInformation">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetConsumerInformationResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q63="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat

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ion" minOccurs="0" name="GetConsumerInformationResult" nillable="true"
type="q63:ConsumerInfo" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetChangedConsumers">
<xs:complexType>
<xs:sequence>
<xs:element minOccurs="0" name="lastChangeTimeStamp" type="xs:long" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetChangedConsumersResponse">
<xs:complexType>
<xs:sequence>
<xs:element xmlns:q64="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetChangedConsumersResult" nillable="true" type="q64:ArrayOfstring" />
<xs:element minOccurs="0" name="lastChangeTimeStamp" type="xs:long" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetContentSourceNames">
<xs:complexType>
<xs:sequence />
</xs:complexType>
</xs:element>
<xs:element name="GetContentSourceNamesResponse">
<xs:complexType>
<xs:sequence>
<xs:element xmlns:q65="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetContentSourceNamesResult" nillable="true" type="q65:ArrayOfstring" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetManagedProperties">
<xs:complexType>
<xs:sequence />
</xs:complexType>
</xs:element>
<xs:element name="GetManagedPropertiesResponse">
<xs:complexType>
<xs:sequence>
<xs:element
xmlns:q66="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetManagedPropertiesResult" nillable="true"
type="q66:ArrayOfManagedPropertyInfo" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetPropertyQueryRuleCount">
<xs:complexType>
<xs:sequence>
<xs:element minOccurs="0" name="propertyName" nillable="true" type="xs:string" />
<xs:element minOccurs="0" name="propertyValue" nillable="true" type="xs:string"
/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetPropertyQueryRuleCountResponse">
<xs:complexType>

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        <xs:sequence>
          <xs:element minOccurs="0" name="GetPropertyQueryRuleCountResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetUrlRuleCount">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="matchString" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetUrlRuleCountResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetUrlRuleCountResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopeRowCount">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="scopeName" nillable="true" type="xs:string" />
          <xs:element xmlns:q67="http://schemas.microsoft.com/2003/10/Serialization/"
minOccurs="0" name="consumerId" type="q67:guid" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopeRowCountResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetScopeRowCountResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConsumers">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetConsumersResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:q68="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetConsumersResult" nillable="true" type="q68:ArrayOfstring" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetSearchApplicationDisplayName">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetSearchApplicationDisplayNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetSearchApplicationDisplayNameResult"
nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:element name="AddConsumer">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="AddConsumerResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="AddConsumerResult" type="xs:int" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteConsumer">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteConsumerResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetScopesManagerInfo">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetScopesManagerInfoResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q69="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetScopesManagerInfoResult" nillable="true"
type="q69:ScopesManagerInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="GetVolatileScopesManagerInfo">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetVolatileScopesManagerInfoResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q70="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetVolatileScopesManagerInfoResult" nillable="true"
type="q70:VolatileScopesManagerInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="SetScopesManagerInfo">

```

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    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q71="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="scopesManagerInfo" nillable="true" type="q71:ScopesManagerInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetScopesManagerInfoResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="StartScopesCompilation">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="StartScopesCompilationResponse">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopesCount">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopesCountResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetScopesCountResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetVisibleScopesCount">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetVisibleScopesCountResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetVisibleScopesCountResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopesInfo">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetScopesInfoResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q72="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetScopesInfoResult" nillable="true" type="q72:ArrayOfScopeInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="GetScopesForConsumer">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetScopesForConsumerResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q73="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetScopesForConsumerResult" nillable="true"
type="q73:ArrayOfScopeInfo" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="GetUnusedScopesForConsumer">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetUnusedScopesForConsumerResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element
xmlns:q74="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetUnusedScopesForConsumerResult" nillable="true"
type="q74:ArrayOfScopeInfo" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      <xs:element name="GetScopeIDFromName">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    <xs:element name="GetScopeIDFromNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetScopeIDFromNameResult" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetDisplayGroupsCount">
      <xs:complexType>
        <xs:sequence />
      </xs:complexType>
    </xs:element>
    <xs:element name="GetDisplayGroupsCountResponse">
      <xs:complexType>
        <xs:sequence>

```



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        <xs:element minOccurs="0" name="GetDisplayGroupsCountResult" type="xs:int" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupsInfo">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
<xs:element name="GetDisplayGroupsInfoResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q75="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetDisplayGroupsInfoResult" nillable="true"
type="q75:ArrayOfDisplayGroupInfo" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="GetDisplayGroupsForConsumer">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="GetDisplayGroupsForConsumerResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q76="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetDisplayGroupsForConsumerResult" nillable="true"
type="q76:ArrayOfDisplayGroupInfo" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="GetDisplayGroupIDFromName">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="consumerName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="name" nillable="true" type="xs:string" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="GetDisplayGroupIDFromNameResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="GetDisplayGroupIDFromNameResult" type="xs:int" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>
<xs:element name="AddScope">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:q77="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="scopeInfo" nillable="true" type="q77:ScopeInfo" />
                </xs:sequence>
            </xs:complexType>
        </xs:element>

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<xs:element name="AddScopeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AddScopeResult" type="xs:int" />
      <xs:element minOccurs="0" name="statusCode" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DropScope">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DropScopeResponse">
  <xs:complexType>
    <xs:sequence />
  </xs:complexType>
</xs:element>
<xs:element name="GetContainingDisplayGroups">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetContainingDisplayGroupsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:q78="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="GetContainingDisplayGroupsResult" nillable="true" type="q78:ArrayOfint"
/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetScopeInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetScopeInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q79="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetScopeInfoResult" nillable="true" type="q79:ScopeInfo" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetVolatileScopeInfo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="scopeId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>

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<xs:element name="GetVolatileScopeInfoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:q80="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetVolatileScopeInfoResult" nillable="true" type="q80:ScopeInfo" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SetScopeInfo">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q81="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="scopeInfo" nillable="true" type="q81:ScopeInfo" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="SetScopeInfoResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRulesCount">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="scopeId" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="GetRulesCountResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="GetRulesCountResult" type="xs:int" />
        <xs:element minOccurs="0" name="statusCode" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="GetRulesInfo">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="scopeId" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="GetRulesInfoResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:q82="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="GetRulesInfoResult" nillable="true" type="q82:ArrayOfRuleInfo" />
        <xs:element minOccurs="0" name="statusCode" type="xs:int" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  <xs:element name="AddRule">
    <xs:complexType>
      <xs:sequence>

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        <xs:element
xmlns:q83="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" minOccurs="0" name="ruleInfo" nillable="true" type="q83:RuleInfo" />
        <xs:element minOccurs="0" name="scopeId" type="xs:int" />
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="AddRuleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="AddRuleResult" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DropRule">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="ruleId" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DropRuleResponse">
    <xs:complexType>
        <xs:sequence />
    </xs:complexType>
</xs:element>
</xs:schema>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Admin
istration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System.Globalization" />
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System" />
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System.Net" />
    <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08" />
    <xs:complexType name="LocationConfiguration">
        <xs:sequence>
            <xs:element minOccurs="0" name="AdminDescription" nillable="true" type="xs:string"
/>
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="AllowedSiteCollectionGuids" nillable="true" type="q1:ArrayOfguid" />
            <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="AllowedSiteCollectionUrls" nillable="true" type="q2:ArrayOfanyType" />
            <xs:element minOccurs="0" name="AuthInfo" nillable="true"
type="tns:AuthenticationInformation" />
            <xs:element minOccurs="0" name="Author" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="ConnectionUrlTemplate" nillable="true"
type="xs:string" />
            <xs:element minOccurs="0" name="CreationDate" type="xs:dateTime" />
            <xs:element minOccurs="0" name="DescriptionXml" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="FullVisualization" nillable="true"
type="tns:Visualization" />
            <xs:element minOccurs="0" name="Id" type="xs:int" />
            <xs:element minOccurs="0" name="InternalName" nillable="true" type="xs:string" />
            <xs:element minOccurs="0" name="IsDeletable" type="xs:boolean" />
            <xs:element minOccurs="0" name="IsPrefixPattern" type="xs:boolean" />
            <xs:element minOccurs="0" name="IsRestrictedLocation" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
</xs:schema>

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        <xs:element minOccurs="0" name="KindsOfResults" nillable="true" type="xs:string" />
        <xs:element xmlns:q3="http://schemas.datacontract.org/2004/07/System.Globalizati
minOccurs="0" name="Languages" nillable="true" type="q3:ArrayOfCultureInfo" />
        <xs:element minOccurs="0" name="LastModifiedDate" type="xs:dateTime" />
        <xs:element minOccurs="0" name="MoreLinkTemplate" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="QueryReformatPattern" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="QueryRestriction" nillable="true" type="xs:string"
/>
        <xs:element minOccurs="0" name="SummaryVisualization" nillable="true"
type="tns:Visualization" />
        <xs:element minOccurs="0" name="TopAnswerVisualization" nillable="true"
type="tns:Visualization" />
        <xs:element minOccurs="0" name="Type" type="tns:LocationType" />
        <xs:element xmlns:q4="http://schemas.datacontract.org/2004/07/System" minOccurs="0"
name="Version" nillable="true" type="q4:Version" />
        <xs:element xmlns:q5="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="Visualizations" nillable="true"
type="q5:ArrayOfKeyValueOfstringVisualizationy6h3NzC8" />
        <xs:element minOccurs="0" name="typeName" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="LocationConfiguration" nillable="true"
type="tns:LocationConfiguration" />
<xs:complexType name="AuthenticationInformation">
    <xs:sequence>
        <xs:element minOccurs="0" name="AuthenticationType" type="tns:FederationAuthType"
/>
        <xs:element minOccurs="0" name="Data" nillable="true" type="tns:AuthenticationData"
/>
    </xs:sequence>
</xs:complexType>
<xs:element name="AuthenticationInformation" nillable="true"
type="tns:AuthenticationInformation" />
<xs:simpleType name="FederationAuthType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Anonymous" />
        <xs:enumeration value="LocalNTAuth" />
        <xs:enumeration value="SingleAccountBasicAuth" />
        <xs:enumeration value="SingleAccountFormsAuthentication" />
        <xs:enumeration value="SingleAccountCookie" />
        <xs:enumeration value="ApplicationPoolIdentity" />
        <xs:enumeration value="Kerberos" />
        <xs:enumeration value="PerUserFormsAuthentication" />
        <xs:enumeration value="PerUserCookie" />
        <xs:enumeration value="SSO" />
        <xs:enumeration value="SingleAccountNTLM" />
        <xs:enumeration value="PerUserNTLM" />
        <xs:enumeration value="SingleAccountDigest" />
        <xs:enumeration value="PerUserDigest" />
        <xs:enumeration value="PerUserBasicAuth" />
        <xs:enumeration value="Custom" />
        <xs:enumeration value="PerUserCustom" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="FederationAuthType" nillable="true" type="tns:FederationAuthType" />
<xs:complexType name="AuthenticationData">
    <xs:sequence />

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</xs:complexType>
<xs:element name="AuthenticationData" nillable="true" type="tns:AuthenticationData" />
<xs:complexType name="FormsAuthCredentials">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:SecurableAuthData">
      <xs:sequence>
        <xs:element minOccurs="0" name="_AuthSchemeName" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="_AuthSubmissionMethod" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="_AuthSubmissionPath" nillable="true"
type="xs:string" />
        <xs:element minOccurs="0" name="_ErrorPageUrl" nillable="true" type="xs:string"
/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="FormsAuthCredentials" nillable="true" type="tns:FormsAuthCredentials"
/>
<xs:complexType name="SecurableAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element
xmlns:q6="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="SerializableSecurableNameValuePair" nillable="true"
type="q6:ArrayOfKeyValueOfstringstring" />
        <xs:element
xmlns:q7="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="_NameValuePair" nillable="true" type="q7:ArrayOfKeyValueOfstringstring" />
        <xs:element
xmlns:q8="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="_SecurableNameValuePair" nillable="true"
type="q8:ArrayOfKeyValueOfstringSecureStringX9wx7DhE" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="SecurableAuthData" nillable="true" type="tns:SecurableAuthData" />
<xs:complexType name="CookieAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element xmlns:q9="http://schemas.datacontract.org/2004/07/System.Net"
minOccurs="0" name="_Cookies" nillable="true" type="q9:CookieCollection" />
        <xs:element minOccurs="0" name="_ErrorPageUrl" nillable="true" type="xs:string"
/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="CookieAuthData" nillable="true" type="tns:CookieAuthData" />
<xs:complexType name="SsoAuthData">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:AuthenticationData">
      <xs:sequence>
        <xs:element minOccurs="0" name="_SsoAppId" nillable="true" type="xs:string" />

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        <xs:element
xmlns:q10="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0"
name="_nameValuePairs" nillable="true" type="q10:ArrayOfKeyValueOfstringstring" />
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="SsoAuthData" nillable="true" type="tns:SsoAuthData" />
<xs:complexType name="AccountAuthCredentials">
    <xs:complexContent mixed="false">
        <xs:extension base="tns:AuthenticationData">
            <xs:sequence>
                <xs:element minOccurs="0" name="Password" nillable="true" type="xs:string" />
                <xs:element minOccurs="0" name="_UserName" nillable="true" type="xs:string" />
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="AccountAuthCredentials" nillable="true"
type="tns:AccountAuthCredentials" />
<xs:complexType name="Visualization">
    <xs:sequence>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Properties" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="SampleData" nillable="true" type="xs:string" />
        <xs:element minOccurs="0" name="Xsl" nillable="true" type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="Visualization" nillable="true" type="tns:Visualization" />
<xs:simpleType name="LocationType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="LocalSharepoint" />
        <xs:enumeration value="OpenSearch" />
        <xs:enumeration value="FASTSearch" />
        <xs:enumeration value="Custom" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="LocationType" nillable="true" type="tns:LocationType" />
<xs:complexType name="ArrayOfLocationConfiguration">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="LocationConfiguration"
nillable="true" type="tns:LocationConfiguration" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfLocationConfiguration" nillable="true"
type="tns:ArrayOfLocationConfiguration" />
<xs:complexType name="UserPreferenceSerializeHelper">
    <xs:sequence>
        <xs:element minOccurs="0" name="CustomSettings" type="xs:unsignedLong" />
        <xs:element minOccurs="0" name="CustomString" nillable="true" type="xs:string" />
        <xs:element xmlns:q11="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="QueryLanguages" nillable="true" type="q11:ArrayOfint" />
        <xs:element minOccurs="0" name="Settings" type="xs:unsignedLong" />
        <xs:element minOccurs="0" name="Version" type="xs:int" />
    </xs:sequence>
</xs:complexType>
<xs:element name="UserPreferenceSerializeHelper" nillable="true"
type="tns:UserPreferenceSerializeHelper" />
    <xs:complexType name="RuleInfo">

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    <xs:sequence>
      <xs:element minOccurs="0" name="FilterBehavior" type="tns:ScopeRuleFilterBehavior"
/>
      <xs:element minOccurs="0" name="Id" type="xs:int" />
      <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean" />
      <xs:element minOccurs="0" name="ManagedProperty" nillable="true"
type="tns:ManagedPropertyInfo" />
      <xs:element minOccurs="0" name="RuleType" type="tns:ScopeRuleType" />
      <xs:element minOccurs="0" name="UrlRuleType" type="tns:UrlScopeRuleType" />
      <xs:element minOccurs="0" name="UserValue" nillable="true" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="RuleInfo" nillable="true" type="tns:RuleInfo" />
  <xs:simpleType name="ScopeRuleFilterBehavior">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Include" />
      <xs:enumeration value="Require" />
      <xs:enumeration value="Exclude" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ScopeRuleFilterBehavior" nillable="true"
type="tns:ScopeRuleFilterBehavior" />
  <xs:complexType name="ManagedPropertyInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="EnabledForScoping" type="xs:boolean" />
      <xs:element minOccurs="0" name="ManagedType" type="tns:ManagedDataType" />
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Pid" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ManagedPropertyInfo" nillable="true" type="tns:ManagedPropertyInfo"
/>
  <xs:simpleType name="ManagedDataType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unsupported" />
      <xs:enumeration value="Text" />
      <xs:enumeration value="Integer" />
      <xs:enumeration value="Decimal" />
      <xs:enumeration value="DateTime" />
      <xs:enumeration value="YesNo" />
      <xs:enumeration value="Binary" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ManagedDataType" nillable="true" type="tns:ManagedDataType" />
  <xs:simpleType name="ScopeRuleType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AllContent" />
      <xs:enumeration value="Url" />
      <xs:enumeration value="PropertyQuery" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ScopeRuleType" nillable="true" type="tns:ScopeRuleType" />
  <xs:simpleType name="UrlScopeRuleType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Folder" />
      <xs:enumeration value="HostName" />
      <xs:enumeration value="Domain" />
    </xs:restriction>
  </xs:simpleType>

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<xs:element name="UrlScopeRuleType" nillable="true" type="tns:UrlScopeRuleType" />
<xs:complexType name="DisplayGroupInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConsumerName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DefaultScopeID" type="xs:int" />
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DisplayInAdminUI" type="xs:boolean" />
    <xs:element minOccurs="0" name="Id" type="xs:int" />
    <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean" />
    <xs:element minOccurs="0" name="IsUndeletable" type="xs:boolean" />
    <xs:element minOccurs="0" name="LastModifiedBy" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="LastModifiedTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="SiteUrl" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="DisplayGroupInfo" nillable="true" type="tns:DisplayGroupInfo" />
<xs:complexType name="Keyword">
  <xs:sequence>
    <xs:element minOccurs="0" name="contact" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="definition" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="endDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="id" type="xs:int" />
    <xs:element minOccurs="0" name="reviewDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="startDate" type="xs:dateTime" />
    <xs:element minOccurs="0" name="term" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="Keyword" nillable="true" type="tns:Keyword" />
<xs:element name="SearchServiceApplicationFault" nillable="true"
type="tns:SearchServiceApplicationFault" />
<xs:simpleType name="KeywordView">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AllKeywords" />
    <xs:enumeration value="ExpiredKeywords" />
    <xs:enumeration value="ReviewKeywords" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="KeywordView" nillable="true" type="tns:KeywordView" />
<xs:simpleType name="KeywordFilter">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Keyword" />
    <xs:enumeration value="Synonyms" />
    <xs:enumeration value="BestBetTitle" />
    <xs:enumeration value="BestBetUrl" />
    <xs:enumeration value="Contact" />
    <xs:enumeration value="None" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="KeywordFilter" nillable="true" type="tns:KeywordFilter" />
<xs:complexType name="BestBet">
  <xs:sequence>
    <xs:element minOccurs="0" name="description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="id" type="xs:int" />
    <xs:element minOccurs="0" name="title" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="url" nillable="true" type="xs:anyURI" />
  </xs:sequence>
</xs:complexType>
<xs:element name="BestBet" nillable="true" type="tns:BestBet" />

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<xs:simpleType name="BestBetFilter">
  <xs:restriction base="xs:string">
    <xs:enumeration value="BestBetTitle" />
    <xs:enumeration value="BestBetUrl" />
    <xs:enumeration value="Both" />
    <xs:enumeration value="None" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="BestBetFilter" nillable="true" type="tns:BestBetFilter" />
<xs:complexType name="Synonym">
  <xs:sequence>
    <xs:element minOccurs="0" name="term" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="Synonym" nillable="true" type="tns:Synonym" />
<xs:complexType name="ConsumerInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConsumerDisplayGroups" nillable="true"
type="tns:ArrayOfDisplayGroupInfo" />
    <xs:element minOccurs="0" name="ConsumerScopes" nillable="true"
type="tns:ArrayOfScopeInfo" />
    <xs:element minOccurs="0" name="DisplayGroupMemberships" nillable="true"
type="tns:ArrayOfDisplayGroupMembership" />
    <xs:element minOccurs="0" name="LastRefreshTimeStamp" type="xs:long" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ConsumerInfo" nillable="true" type="tns:ConsumerInfo" />
<xs:complexType name="ArrayOfDisplayGroupInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DisplayGroupInfo"
nillable="true" type="tns:DisplayGroupInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDisplayGroupInfo" nillable="true"
type="tns:ArrayOfDisplayGroupInfo" />
<xs:complexType name="ArrayOfScopeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ScopeInfo" nillable="true"
type="tns:ScopeInfo" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfScopeInfo" nillable="true" type="tns:ArrayOfScopeInfo" />
<xs:complexType name="ScopeInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="AlternateResultsPage" nillable="true"
type="xs:string" />
    <xs:element minOccurs="0" name="CompilationState" type="tns:ScopeCompilationState"
/>
    <xs:element minOccurs="0" name="CompilationType" type="tns:ScopeCompilationType" />
    <xs:element minOccurs="0" name="ConsumerName" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="DisplayInAdminUI" type="xs:boolean" />
    <xs:element minOccurs="0" name="Filter" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="Id" type="xs:int" />
    <xs:element minOccurs="0" name="IsDeleted" type="xs:boolean" />
    <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="LastModifiedBy" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="LastModifiedTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string" />
    <xs:element minOccurs="0" name="SiteUrl" nillable="true" type="xs:string" />
  </xs:sequence>
</xs:complexType>

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    </xs:sequence>
  </xs:complexType>
  <xs:element name="ScopeInfo" nillable="true" type="tns:ScopeInfo" />
  <xs:simpleType name="ScopeCompilationState">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Empty" />
      <xs:enumeration value="Invalid" />
      <xs:enumeration value="QueryExpanded" />
      <xs:enumeration value="NeedsCompile" />
      <xs:enumeration value="Compiled" />
      <xs:enumeration value="NeedsRecompile" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ScopeCompilationState" nillable="true"
type="tns:ScopeCompilationState" />
  <xs:simpleType name="ScopeCompilationType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="ConditionalCompile" />
      <xs:enumeration value="AlwaysCompile" />
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ScopeCompilationType" nillable="true" type="tns:ScopeCompilationType"
/>
  <xs:complexType name="ArrayOfDisplayGroupMembership">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DisplayGroupMembership"
nillable="true" type="tns:DisplayGroupMembership" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfDisplayGroupMembership" nillable="true"
type="tns:ArrayOfDisplayGroupMembership" />
  <xs:complexType name="DisplayGroupMembership">
    <xs:sequence>
      <xs:element minOccurs="0" name="DisplayGroupId" type="xs:int" />
      <xs:element minOccurs="0" name="ScopeId" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="DisplayGroupMembership" nillable="true"
type="tns:DisplayGroupMembership" />
  <xs:complexType name="ArrayOfManagedPropertyInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ManagedPropertyInfo"
nillable="true" type="tns:ManagedPropertyInfo" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfManagedPropertyInfo" nillable="true"
type="tns:ArrayOfManagedPropertyInfo" />
  <xs:complexType name="ScopesManagerInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="AverageCompilationDuration" type="ser:duration" />
      <xs:element minOccurs="0" name="CompilationPercentComplete" type="xs:short" />
      <xs:element minOccurs="0" name="CompilationScheduleType"
type="tns:ScopesCompilationScheduleType" />
      <xs:element minOccurs="0" name="CompilationStartTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="CompilationState" type="tns:ScopesCompilationState"
/>
      <xs:element minOccurs="0" name="CustomCompilationSchedule" nillable="true"
type="xs:string" />
      <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime" />
      <xs:element minOccurs="0" name="NextCompilationTime" type="xs:dateTime" />
    </xs:sequence>
  </xs:complexType>

```

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        <xs:element minOccurs="0" name="ScopesNeedingCompilation" type="xs:int" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ScopesManagerInfo" nillable="true" type="tns:ScopesManagerInfo" />
<xs:simpleType name="ScopesCompilationScheduleType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="None" />
        <xs:enumeration value="Automatic" />
        <xs:enumeration value="Custom" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="ScopesCompilationScheduleType" nillable="true"
type="tns:ScopesCompilationScheduleType" />
<xs:simpleType name="ScopesCompilationState">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Idle" />
        <xs:enumeration value="Compiling" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="ScopesCompilationState" nillable="true"
type="tns:ScopesCompilationState" />
<xs:complexType name="VolatileScopesManagerInfo">
    <xs:sequence>
        <xs:element minOccurs="0" name="AverageCompilationDuration" type="ser:duration" />
        <xs:element minOccurs="0" name="CompilationPercentComplete" type="xs:short" />
        <xs:element minOccurs="0" name="CompilationStartTime" type="xs:dateTime" />
        <xs:element minOccurs="0" name="CompilationState" type="tns:ScopesCompilationState" />
    </xs:sequence>
    <xs:element minOccurs="0" name="LastCompilationTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="NextCompilationTime" type="xs:dateTime" />
    <xs:element minOccurs="0" name="ScopesNeedingCompilation" type="xs:int" />
</xs:complexType>
</xs:complexType>
<xs:element name="VolatileScopesManagerInfo" nillable="true"
type="tns:VolatileScopesManagerInfo" />
<xs:complexType name="ArrayOfRuleInfo">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="RuleInfo" nillable="true"
type="tns:RuleInfo" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfRuleInfo" nillable="true" type="tns:ArrayOfRuleInfo" />
</xs:schema>
<xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import namespace="http://schemas.datacontract.org/2004/07/System.Security" />
    <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrat
ion" />
    <xs:complexType name="ArrayOfguid">
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="unbounded" name="guid" type="ser:guid" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfguid" nillable="true" type="tns:ArrayOfguid" />
    <xs:complexType name="ArrayOfanyType">

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    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"
type="xs:anyType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfanyType" nillable="true" type="tns:ArrayOfanyType" />
  <xs:complexType name="ArrayOfKeyValueOfstringstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringstring">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element name="Value" nillable="true" type="xs:string" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfKeyValueOfstringstring" nillable="true"
type="tns:ArrayOfKeyValueOfstringstring" />
  <xs:complexType name="ArrayOfKeyValueOfstringSecureStringX9wx7DhE">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfstringSecureStringX9wx7DhE">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/System.Security" name="Value"
nillable="true" type="q1:SecureString" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstringSecureStringX9wx7DhE" nillable="true"
type="tns:ArrayOfstringSecureStringX9wx7DhE" />
  <xs:complexType name="ArrayOfint">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfint" nillable="true" type="tns:ArrayOfint" />
  <xs:complexType name="ArrayOfstring">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfstring" nillable="true" type="tns:ArrayOfstring" />
  <xs:complexType name="ArrayOfKeyValueOfstringVisualizationy6h3NzC8">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfstringVisualizationy6h3NzC8">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="Value" nillable="true" type="q2:Visualization" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

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        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfKeyValueOfstringVisualizationy6h3NzC8" nillable="true"
type="tns:ArrayOfKeyValueOfstringVisualizationy6h3NzC8" />
  <xs:complexType name="ArrayOfKeyValueOfstringKeywordy6h3NzC8">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfstringKeywordy6h3NzC8">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="Value" nillable="true" type="q3:Keyword" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
<xs:element name="ArrayOfKeyValueOfstringKeywordy6h3NzC8" nillable="true"
type="tns:ArrayOfKeyValueOfstringKeywordy6h3NzC8" />
  <xs:complexType name="ArrayOfKeyValueOfanyURIBestBety6h3NzC8">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfanyURIBestBety6h3NzC8">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:anyURI" />
            <xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="Value" nillable="true" type="q4:BestBet" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
<xs:element name="ArrayOfKeyValueOfanyURIBestBety6h3NzC8" nillable="true"
type="tns:ArrayOfKeyValueOfanyURIBestBety6h3NzC8" />
  <xs:complexType name="ArrayOfKeyValueOfstringSynonymy6h3NzC8">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded"
name="KeyValueOfstringSynonymy6h3NzC8">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="Key" nillable="true" type="xs:string" />
            <xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="Value" nillable="true" type="q5:Synonym" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
<xs:element name="ArrayOfKeyValueOfstringSynonymy6h3NzC8" nillable="true"
type="tns:ArrayOfKeyValueOfstringSynonymy6h3NzC8" />
</xs:schema>

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    <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
      attributeFormDefault="qualified" elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:element name="anyType" nillable="true" type="xs:anyType" />
      <xs:element name="anyURI" nillable="true" type="xs:anyURI" />
      <xs:element name="base64Binary" nillable="true" type="xs:base64Binary" />
      <xs:element name="boolean" nillable="true" type="xs:boolean" />
      <xs:element name="byte" nillable="true" type="xs:byte" />
      <xs:element name="dateTime" nillable="true" type="xs:dateTime" />
      <xs:element name="decimal" nillable="true" type="xs:decimal" />
      <xs:element name="double" nillable="true" type="xs:double" />
      <xs:element name="float" nillable="true" type="xs:float" />
      <xs:element name="int" nillable="true" type="xs:int" />
      <xs:element name="long" nillable="true" type="xs:long" />
      <xs:element name="QName" nillable="true" type="xs:QName" />
      <xs:element name="short" nillable="true" type="xs:short" />
      <xs:element name="string" nillable="true" type="xs:string" />
      <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte" />
      <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt" />
      <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong" />
      <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort" />
      <xs:element name="char" nillable="true" type="tns:char" />
      <xs:simpleType name="char">
        <xs:restriction base="xs:int" />
      </xs:simpleType>
      <xs:element name="duration" nillable="true" type="tns:duration" />
      <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
          <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
          <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
          <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
        </xs:restriction>
      </xs:simpleType>
      <xs:element name="guid" nillable="true" type="tns:guid" />
      <xs:simpleType name="guid">
        <xs:restriction base="xs:string">
          <xs:pattern value="\[da-fA-F]{8}-\[da-fA-F]{4}-\[da-fA-F]{4}-\[da-fA-F]{4}-\[da-fA-F]{12}" />
        </xs:restriction>
      </xs:simpleType>
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Security"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.datacontract.org/2004/07/System.Security"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType name="SecureString">
        <xs:sequence />
      </xs:complexType>
      <xs:element name="SecureString" nillable="true" type="tns:SecureString" />
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Globalization"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.datacontract.org/2004/07/System.Globalization"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:complexType name="ArrayOfCultureInfo">
        <xs:sequence>

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        <xs:element minOccurs="0" maxOccurs="unbounded" name="CultureInfo" nillable="true"
type="tns:CultureInfo" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfCultureInfo" nillable="true" type="tns:ArrayOfCultureInfo" />
<xs:element name="CultureInfo" nillable="true" type="tns:CultureInfo" />
<xs:element name="Calendar" nillable="true" type="tns:Calendar" />
<xs:element name="CompareInfo" nillable="true" type="tns:CompareInfo" />
<xs:element name="DateTimeFormatInfo" nillable="true" type="tns:DateTimeFormatInfo" />
<xs:element name="DateTimeFormatFlags" nillable="true" type="tns:DateTimeFormatFlags"
/>
    <xs:element name="NumberFormatInfo" nillable="true" type="tns:NumberFormatInfo" />
    <xs:element name="TextInfo" nillable="true" type="tns:TextInfo" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexType name="Version">
        <xs:sequence>
            <xs:element name="_Build" type="xs:int" />
            <xs:element name="_Major" type="xs:int" />
            <xs:element name="_Minor" type="xs:int" />
            <xs:element name="_Revision" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="Version" nillable="true" type="tns:Version" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.datacontract.org/2004/07/System.Net"
elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/System.Net"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:complexType name="CookieCollection">
        <xs:sequence>
            <xs:element minOccurs="0" name="m_IsReadOnly" type="xs:boolean" />
            <xs:element name="m_TimeStamp" type="xs:dateTime" />
            <xs:element name="m_has_other_versions" type="xs:boolean" />
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
name="m_list" nillable="true" type="q1:ArrayOfanyType" />
            <xs:element name="m_version" type="xs:int" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="CookieCollection" nillable="true" type="tns:CookieCollection" />
    <xs:element name="Cookie" nillable="true" type="tns:Cookie" />
    <xs:element name="CookieVariant" nillable="true" type="tns:CookieVariant" />
</xs:schema>
<xs:schema xmlns:tns="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08"
elementFormDefault="qualified"
targetNamespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2008/08"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:complexType name="SearchProxyInfo">
        <xs:sequence>
            <xs:element minOccurs="0" name="Address" nillable="true" type="xs:anyURI" />
            <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="BypassList" nillable="true" type="q1:ArrayOfstring" />
            <xs:element minOccurs="0" name="BypassProxyOnLocal" type="xs:boolean" />
            <xs:element minOccurs="0" name="UseCrawlProxyForFederation" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>

```



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        </xs:sequence>
    </xs:complexType>
    <xs:element name="SearchProxyInfo" nillable="true" type="tns:SearchProxyInfo" />
    <xs:complexType name="AlertManagerInfo">
        <xs:sequence>
            <xs:element minOccurs="0" name="SearchAlertNotificationFormatVersion" type="xs:int"
/>
            <xs:element minOccurs="0" name="SearchAlertNotificationQuota" type="xs:int" />
            <xs:element minOccurs="0" name="SearchAlertsEnabled" type="xs:boolean" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="AlertManagerInfo" nillable="true" type="tns:AlertManagerInfo" />
    <xs:simpleType name="SearchServiceApplicationFaultType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="SpecialTerm_NotFound" />
            <xs:enumeration value="SpecialTerm_DuplicateError" />
            <xs:enumeration value="Synonym_NotFound" />
            <xs:enumeration value="BestBet_NotFound" />
            <xs:enumeration value="BestBet_OrderDuplicationError" />
            <xs:enumeration value="AllNoiseQuery" />
            <xs:enumeration value="SearchServiceNotFound" />
            <xs:enumeration value="QueryMalformed" />
            <xs:enumeration value="ScopeNotFound" />
            <xs:enumeration value="InvalidProperty" />
            <xs:enumeration value="OnlyExcludedTerms" />
            <xs:enumeration value="RankingModelNotFound" />
            <xs:enumeration value="UnsupportedTopology" />
            <xs:enumeration value="FASTSearchQuery" />
            <xs:enumeration value="Timeout" />
            <xs:enumeration value="ExtendedConnectorApplicaion" />
            <xs:enumeration value="PartitionOptionsMismatch" />
            <xs:enumeration value="TooComplexQueryException" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="SearchServiceApplicationFaultType" nillable="true"
type="tns:SearchServiceApplicationFaultType" />
</xs:schema>
</wsdl:types>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateLocationConfiguration" />
</wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateLocationConfigurationResponse" />
</wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_PutLocationVisualization_InputMessage">
    <wsdl:part name="parameters" element="tns:PutLocationVisualization" />
</wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_PutLocationVisualization_OutputMessage">
    <wsdl:part name="parameters" element="tns:PutLocationVisualizationResponse" />
</wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_InputMessage">
    <wsdl:part name="parameters" element="tns>DeleteLocationConfiguration" />
</wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_OutputMessage">

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        <wsdl:part name="parameters" element="tns:DeleteLocationConfigurationResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_InputMe
ssage">
        <wsdl:part name="parameters" element="tns:GetSharepointLocationVisualizations" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_OutputM
essage">
        <wsdl:part name="parameters" element="tns:GetSharepointLocationVisualizationsResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLocationVisualizations" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLocationVisualizationsResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_InputMessage">
        <wsdl:part name="parameters" element="tns:GetLocationConfigurations" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetLocationConfigurationsResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetProxyInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetProxyInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetProxyInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetProxyInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_InputMessa
ge">
        <wsdl:part name="parameters" element="tns:GetUserPreferenceSerializeHelper" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_OutputMess
age">
        <wsdl:part name="parameters" element="tns:GetUserPreferenceSerializeHelperResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_InputMessa
ge">
        <wsdl:part name="parameters" element="tns:SetUserPreferenceSerializeHelper" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_OutputMess
age">
        <wsdl:part name="parameters" element="tns:SetUserPreferenceSerializeHelperResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchAlertManagerInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_OutputMessage">

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        <wsdl:part name="parameters" element="tns:GetSearchAlertManagerInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_InputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchAlertNotificationFormat" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchAlertNotificationFormatResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetRuleInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetRuleInfo" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetRuleInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetRuleInfoResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_SetRuleInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:SetRuleInfo" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_SetRuleInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:SetRuleInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddDisplayGroup_InputMessage">
        <wsdl:part name="parameters" element="tns:AddDisplayGroup" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddDisplayGroup_OutputMessage">
        <wsdl:part name="parameters" element="tns:AddDisplayGroupResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DropDisplayGroup_InputMessage">
        <wsdl:part name="parameters" element="tns:DropDisplayGroup" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DropDisplayGroup_OutputMessage">
        <wsdl:part name="parameters" element="tns:DropDisplayGroupResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetDisplayGroupInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetDisplayGroupInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:SetDisplayGroupInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:SetDisplayGroupInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetDisplayGroupListInfo" />
    </wsdl:message>

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    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupListInfoResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDisplayGroupListInfo" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetDisplayGroupListInfoResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTerm_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTerm" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTerm_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTermResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTerm_SearchServiceApplicationFaultFault_FaultMessage">
    <wsdl:part
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q1:SearchServiceApplicationFault" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddSpecialTerm_InputMessage">
    <wsdl:part name="parameters" element="tns:AddSpecialTerm" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddSpecialTerm_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddSpecialTermResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddSpecialTerm_SearchServiceApplicationFaultFault_FaultMessage">
    <wsdl:part
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q2:SearchServiceApplicationFault" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsInfo" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsInfoResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsCount" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsCountResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DropSpecialTerm_InputMessage">
    <wsdl:part name="parameters" element="tns:DropSpecialTerm" />

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    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DropSpecialTerm_OutputMessage">
    <wsdl:part name="parameters" element="tns:DropSpecialTermResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:SetSpecialTermInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetSpecialTermInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_SearchServiceApplication
FaultFault_FaultMessage">
    <wsdl:part
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q3:SearchServiceApplicationFault" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_InputMessage"
>
    <wsdl:part name="parameters" element="tns:GetSpecialTermsInfoForBestBet" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_OutputMessage
">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsInfoForBestBetResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_InputMessage
">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsCountForBestBet" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_OutputMessag
e">
    <wsdl:part name="parameters" element="tns:GetSpecialTermsCountForBestBetResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetBestBet_InputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBet" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetBestBet_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBet_SearchServiceApplicationFaultFau
lt_FaultMessage">
    <wsdl:part
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q4:SearchServiceApplicationFault" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_InputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetForSpecialTerm" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetForSpecialTermResponse" />
    </wsdl:message>

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    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_SearchServiceAppli
cationFaultFault_FaultMessage">
    <wsdl:part
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q5:SearchServiceApplicationFault" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddNewBestBet_InputMessage">
    <wsdl:part name="parameters" element="tns:AddNewBestBet" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddNewBestBet_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddNewBestBetResponse" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddNewBestBet_SearchServiceApplicationFault
Fault_FaultMessage">
    <wsdl:part
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q6:SearchServiceApplicationFault" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddBestBetLink_InputMessage">
    <wsdl:part name="parameters" element="tns:AddBestBetLink" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddBestBetLink_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddBestBetLinkResponse" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddBestBetLink_SearchServiceApplicationFaul
tFault_FaultMessage">
    <wsdl:part
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q7:SearchServiceApplicationFault" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveBestBetLink" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveBestBetLinkResponse" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_InputMessage"
>
    <wsdl:part name="parameters" element="tns:GetBestBetsInfoForSpecialTerm" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_OutputMessage
">
    <wsdl:part name="parameters" element="tns:GetBestBetsInfoForSpecialTermResponse" />
    </wsdl:message>
<wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_InputMessage
">
    <wsdl:part name="parameters" element="tns:GetBestBetsCountForSpecialTerm" />
    </wsdl:message>

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    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_OutputMessag
e">
    <wsdl:part name="parameters" element="tns:GetBestBetsCountForSpecialTermResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_InputMes
sage">
    <wsdl:part name="parameters" element="tns:GetBestBetsOrderInfoForSpecialTerm" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_OutputMe
ssage">
    <wsdl:part name="parameters" element="tns:GetBestBetsOrderInfoForSpecialTermResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetsInfo" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetsInfoResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetsCount" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetBestBetsCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetBestBetsCountResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetBestBetInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:SetBestBetInfo" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetBestBetInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetBestBetInfoResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateBestBetsOrder" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateBestBetsOrderResponse" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetSynonym_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonym" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetSynonym_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonymResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSynonym_SearchServiceApplicationFaultFau
lt_FaultMessage">
    <wsdl:part
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q8:SearchServiceApplicationFault" />
</wsdl:message>

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    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_InputMessage
">
    <wsdl:part name="parameters" element="tns:GetSynonymsCountForSpecialTerm" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_OutputMessage
">
    <wsdl:part name="parameters" element="tns:GetSynonymsCountForSpecialTermResponse" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddSynonym_InputMessage">
    <wsdl:part name="parameters" element="tns:AddSynonym" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddSynonym_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddSynonymResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddSynonym_SearchServiceApplicationFaultFault
_Message">
    <wsdl:part
xmlns:q9="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Administrati
on" name="detail" element="q9:SearchServiceApplicationFault" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropSynonym_InputMessage">
    <wsdl:part name="parameters" element="tns:DropSynonym" />
</wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropSynonym_OutputMessage">
    <wsdl:part name="parameters" element="tns:DropSynonymResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonymsInfoSpecialTerm" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonymsInfoSpecialTermResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_InputMes
sage">
    <wsdl:part name="parameters" element="tns:GetLastLocationConfigurationUpdate" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_OutputMe
ssage">
    <wsdl:part name="parameters" element="tns:GetLastLocationConfigurationUpdateResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationDescription_InputMessage">
    <wsdl:part name="parameters" element="tns:GetLocationDescription" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetLocationDescription_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetLocationDescriptionResponse" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_InputMessage">
    <wsdl:part name="parameters" element="tns:AddNewLocationConfiguration" />
</wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_OutputMessage">

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        <wsdl:part name="parameters" element="tns:AddNewLocationConfigurationResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchApplicationName" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchApplicationNameResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetConsumerInformation_InputMessage">
        <wsdl:part name="parameters" element="tns:GetConsumerInformation" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetConsumerInformation_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetConsumerInformationResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetChangedConsumers_InputMessage">
        <wsdl:part name="parameters" element="tns:GetChangedConsumers" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetChangedConsumers_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetChangedConsumersResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetContentSourceNames_InputMessage">
        <wsdl:part name="parameters" element="tns:GetContentSourceNames" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetContentSourceNames_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetContentSourceNamesResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetManagedProperties_InputMessage">
        <wsdl:part name="parameters" element="tns:GetManagedProperties" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetManagedProperties_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetManagedPropertiesResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_InputMessage">
        <wsdl:part name="parameters" element="tns:GetPropertyQueryRuleCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetPropertyQueryRuleCountResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_InputMessage">
        <wsdl:part name="parameters" element="tns:GetUrlRuleCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetUrlRuleCountResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopeRowCount_InputMessage">

```

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        <wsdl:part name="parameters" element="tns:GetScopeRowCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopeRowCount_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopeRowCountResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetConsumers_InputMessage">
        <wsdl:part name="parameters" element="tns:GetConsumers" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetConsumers_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetConsumersResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchApplicationDisplayName" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetSearchApplicationDisplayNameResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddConsumer_InputMessage">
        <wsdl:part name="parameters" element="tns:AddConsumer" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddConsumer_OutputMessage">
        <wsdl:part name="parameters" element="tns:AddConsumerResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DeleteConsumer_InputMessage">
        <wsdl:part name="parameters" element="tns>DeleteConsumer" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_DeleteConsumer_OutputMessage">
        <wsdl:part name="parameters" element="tns>DeleteConsumerResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesManagerInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesManagerInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetVolatileScopesManagerInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetVolatileScopesManagerInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:SetScopesManagerInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_OutputMessage">

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        <wsdl:part name="parameters" element="tns:SetScopesManagerInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_StartScopesCompilation_InputMessage">
        <wsdl:part name="parameters" element="tns:StartScopesCompilation" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_StartScopesCompilation_OutputMessage">
        <wsdl:part name="parameters" element="tns:StartScopesCompilationResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesCount_InputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesCount_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesCountResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_InputMessage">
        <wsdl:part name="parameters" element="tns:GetVisibleScopesCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetVisibleScopesCountResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesInfo_InputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesInfo_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_InputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesForConsumer" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopesForConsumerResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_InputMessage">
        <wsdl:part name="parameters" element="tns:GetUnusedScopesForConsumer" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetUnusedScopesForConsumerResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_InputMessage">
        <wsdl:part name="parameters" element="tns:GetScopeIDFromName" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_OutputMessage">
        <wsdl:part name="parameters" element="tns:GetScopeIDFromNameResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_InputMessage">

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```

    <wsdl:part name="parameters" element="tns:GetDisplayGroupsCount" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupsCountResponse" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupsInfo" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupsInfoResponse" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupsForConsumer" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupsForConsumerResponse" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_InputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupIDFromName" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetDisplayGroupIDFromNameResponse" />
  </wsdl:message>
  <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddScope_InputMessage">
    <wsdl:part name="parameters" element="tns:AddScope" />
  </wsdl:message>
  <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddScope_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddScopeResponse" />
  </wsdl:message>
  <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropScope_InputMessage">
    <wsdl:part name="parameters" element="tns:DropScope" />
  </wsdl:message>
  <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropScope_OutputMessage">
    <wsdl:part name="parameters" element="tns:DropScopeResponse" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:GetContainingDisplayGroups" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetContainingDisplayGroupsResponse" />
  </wsdl:message>
  <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetScopeInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetScopeInfo" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetScopeInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetScopeInfoResponse" />
  </wsdl:message>
  <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetVolatileScopeInfo" />
  </wsdl:message>

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    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetVolatileScopeInfoResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_SetScopeInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:SetScopeInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_SetScopeInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetScopeInfoResponse" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetRulesCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRulesCount" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetRulesCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRulesCountResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_GetRulesInfo_InputMessage">
    <wsdl:part name="parameters" element="tns:GetRulesInfo" />
    </wsdl:message>
    <wsdl:message
name="ISearchSiteAdministrationServiceApplication_GetRulesInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetRulesInfoResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddRule_InputMessage">
    <wsdl:part name="parameters" element="tns:AddRule" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_AddRule_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddRuleResponse" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropRule_InputMessage">
    <wsdl:part name="parameters" element="tns:DropRule" />
    </wsdl:message>
    <wsdl:message name="ISearchSiteAdministrationServiceApplication_DropRule_OutputMessage">
    <wsdl:part name="parameters" element="tns:DropRuleResponse" />
    </wsdl:message>
    <wsdl:portType name="ISearchSiteAdministrationServiceApplication">
    <wsdl:operation name="UpdateLocationConfiguration">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationCon
figuration"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_InputMes
sage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationCon
figurationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateLocationConfiguration_OutputMe
ssage" />
    </wsdl:operation>
    <wsdl:operation name="PutLocationVisualization">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisual
ization"
message="tns:ISearchSiteAdministrationServiceApplication_PutLocationVisualization_InputMessag
e" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisual
izationResponse"

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message="tns:ISearchSiteAdministrationServiceApplication_PutLocationVisualization_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="DeleteLocationConfiguration">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationConfiguration"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationConfigurationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteLocationConfiguration_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSharepointLocationVisualizations">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocationVisualizations"
message="tns:ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocationVisualizationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSharepointLocationVisualizations_OutputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetLocationVisualizations">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisualizations"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisualizationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationVisualizations_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetLocationConfigurations">
          <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigurations"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_InputMessage" />
          <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigurationsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationConfigurations_OutputMessage" />
          </wsdl:operation>
          <wsdl:operation name="GetProxyInfo">
            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetProxyInfo_InputMessage" />
            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfoResponse" message="tns:ISearchSiteAdministrationServiceApplication_GetProxyInfo_OutputMessage" />
            </wsdl:operation>
            <wsdl:operation name="GetUserPreferenceSerializeHelper">
              <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreferenceSerializeHelper"

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message="tns:ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_Inp
utMessage" />
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreference
SerializeHelperResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetUserPreferenceSerializeHelper_Out
putMessage" />
  </wsdl:operation>
  <wsdl:operation name="SetUserPreferenceSerializeHelper">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreference
SerializeHelper"
message="tns:ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_Inp
utMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreference
SerializeHelperResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetUserPreferenceSerializeHelper_Out
putMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetSearchAlertManagerInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertMan
agerInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_InputMessa
ge" />
          <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertMan
agerInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertManagerInfo_OutputMessa
ge" />
          </wsdl:operation>
          <wsdl:operation name="GetSearchAlertNotificationFormat">
            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNot
ificationFormat"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_Inp
utMessage" />
              <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNot
ificationFormatResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchAlertNotificationFormat_Out
putMessage" />
              </wsdl:operation>
              <wsdl:operation name="GetRuleInfo">
                <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetRuleInfo_InputMessage" />
                  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfoRespon
se" message="tns:ISearchSiteAdministrationServiceApplication_GetRuleInfo_OutputMessage" />
                  </wsdl:operation>
                  <wsdl:operation name="SetRuleInfo">
                    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetRuleInfo_InputMessage" />
                      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfoRespon
se" message="tns:ISearchSiteAdministrationServiceApplication_SetRuleInfo_OutputMessage" />
                      </wsdl:operation>
                      <wsdl:operation name="AddDisplayGroup">

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        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroup"
message="tns:ISearchSiteAdministrationServiceApplication_AddDisplayGroup_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroupRe
sponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddDisplayGroup_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="DropDisplayGroup">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroup"
message="tns:ISearchSiteAdministrationServiceApplication_DropDisplayGroup_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroupR
esponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropDisplayGroup_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetDisplayGroupInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIn
fo"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIn
foResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupInfo_OutputMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="SetDisplayGroupInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupIn
fo"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupIn
foResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupInfo_OutputMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="GetDisplayGroupListInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupLi
stInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_InputMessage
" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupLi
stInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupListInfo_OutputMessag
e" />
        </wsdl:operation>
        <wsdl:operation name="SetDisplayGroupListInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupLi
stInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_InputMessage
" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupLi
stInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetDisplayGroupListInfo_OutputMessag
e" />
        </wsdl:operation>

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    <wsdl:operation name="GetSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermRes
ponse" message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_OutputMessage"
/>
      <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermSea
rchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTerm_SearchServiceApplicat
ionFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTermRes
ponse" message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_OutputMessage"
/>
      <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTermSea
rchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddSpecialTerm_SearchServiceApplicat
ionFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSpecialTermsInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsIn
fo"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsIn
foResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfo_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetSpecialTermsCount">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCo
unt"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_InputMessage"
/>
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCo
untResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCount_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="DropSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_DropSpecialTerm_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTermRe
sponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropSpecialTerm_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetSpecialTermInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInf

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o" message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfoSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_SetSpecialTermInfo_SearchServiceApplicationFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSpecialTermsInfoForBestBet">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBet"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBetResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsInfoForBestBet_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSpecialTermsCountForBestBet">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBet"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBetResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSpecialTermsCountForBestBet_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBestBet">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBet"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetResponse" message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBet_SearchServiceApplicationFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBestBetForSpecialTerm">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_OutputMessage" />
    <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTermSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"

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message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetForSpecialTerm_SearchServiceApplicationFaultFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="AddNewBestBet">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBet"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBetResponse" message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_OutputMessage"
/>
    <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBetSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewBestBet_SearchServiceApplicationFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddBestBetLink">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLink"
message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLinkResponse" message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_OutputMessage"
/>
      <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLinkSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddBestBetLink_SearchServiceApplicationFaultFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveBestBetLink">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLink"
message="tns:ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLinkResponse"
message="tns:ISearchSiteAdministrationServiceApplication_RemoveBestBetLink_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetBestBetsInfoForSpecialTerm">
          <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_InputMessage" />
          <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfoForSpecialTerm_OutputMessage" />
          </wsdl:operation>
          <wsdl:operation name="GetBestBetsCountForSpecialTerm">
            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_InputMessage" />
            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCountForSpecialTerm_OutputMessage" />

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    </wsdl:operation>
    <wsdl:operation name="GetBestBetsOrderInfoForSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderI
nfoForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_I
nputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderI
nfoForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsOrderInfoForSpecialTerm_O
utputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBestBetsInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoRe
sponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsInfo_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetBestBetsCount">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCount_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountR
esponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetBestBetsCount_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetBestBetInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetBestBetInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfoRes
ponse" message="tns:ISearchSiteAdministrationServiceApplication_SetBestBetInfo_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="UpdateBestBetsOrder">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrd
er"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrd
erResponse"
message="tns:ISearchSiteAdministrationServiceApplication_UpdateBestBetsOrder_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetSynonym">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonym"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymRespons
e" message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_OutputMessage" />
      <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymSearchS
erviceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonym_SearchServiceApplicationF
aultFault_FaultMessage" />

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    </wsdl:operation>
    <wsdl:operation name="GetSynonymsCountForSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsCountForSpecialTerm_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddSynonym">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonym"
message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonymResponse" message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_OutputMessage" />
      <wsdl:fault
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonymSearchServiceApplicationFaultFault" name="SearchServiceApplicationFaultFault"
message="tns:ISearchSiteAdministrationServiceApplication_AddSynonym_SearchServiceApplicationFaultFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DropSynonym">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonym"
message="tns:ISearchSiteAdministrationServiceApplication_DropSynonym_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonymResponse" message="tns:ISearchSiteAdministrationServiceApplication_DropSynonym_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSynonymsInfoSpecialTerm">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTerm"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTermResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSynonymsInfoSpecialTerm_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetLastLocationConfigurationUpdate">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationConfigurationUpdate"
message="tns:ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationConfigurationUpdateResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLastLocationConfigurationUpdate_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetLocationDescription">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescription"

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message="tns:ISearchSiteAdministrationServiceApplication_GetLocationDescription_InputMessage"
/>
  <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescriptionResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetLocationDescription_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="AddNewLocationConfiguration">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationConfiguration"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationConfigurationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddNewLocationConfiguration_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSearchApplicationName">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationName"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicationNameResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationName_OutputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetConsumerInformation">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInformation"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumerInformation_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInformationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumerInformation_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetChangedConsumers">
          <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumers"
message="tns:ISearchSiteAdministrationServiceApplication_GetChangedConsumers_InputMessage" />
          <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumersResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetChangedConsumers_OutputMessage" />
          </wsdl:operation>
          <wsdl:operation name="GetContentSourceNames">
            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNames"
message="tns:ISearchSiteAdministrationServiceApplication_GetContentSourceNames_InputMessage" />
            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNamesResponse"

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message="tns:ISearchSiteAdministrationServiceApplication_GetContentSourceNames_OutputMessage"
/>
  </wsdl:operation>
  <wsdl:operation name="GetManagedProperties">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedPropert
ies"
message="tns:ISearchSiteAdministrationServiceApplication_GetManagedProperties_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedPropert
iesResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetManagedProperties_OutputMessage"
/>
  </wsdl:operation>
  <wsdl:operation name="GetPropertyQueryRuleCount">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryR
uleCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_InputMessa
ge" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryR
uleCountResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetPropertyQueryRuleCount_OutputMessa
ge" />
  </wsdl:operation>
  <wsdl:operation name="GetUrlRuleCount">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCountRe
sponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetUrlRuleCount_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetScopeRowCount">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeRowCount_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCountR
esponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeRowCount_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetConsumers">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumers"
message="tns:ISearchSiteAdministrationServiceApplication_GetConsumers_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumersRespo
nse" message="tns:ISearchSiteAdministrationServiceApplication_GetConsumers_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetSearchApplicationDisplayName">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicat
ionDisplayName"
message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_Inpu
tMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicat
ionDisplayNameResponse"

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message="tns:ISearchSiteAdministrationServiceApplication_GetSearchApplicationDisplayName_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="AddConsumer">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_AddConsumer_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddConsumer_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteConsumer">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteConsumer_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_DeleteConsumer_OutputMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetScopesManagerInfo">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesManagerInfo_OutputMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetVolatileScopesManagerInfo">
          <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesManagerInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_InputMessage" />
          <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesManagerInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopesManagerInfo_OutputMessage" />
          </wsdl:operation>
          <wsdl:operation name="SetScopesManagerInfo">
            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_InputMessage" />
            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetScopesManagerInfo_OutputMessage" />
            </wsdl:operation>
            <wsdl:operation name="StartScopesCompilation">
              <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompilation"
message="tns:ISearchSiteAdministrationServiceApplication_StartScopesCompilation_InputMessage" />

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        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompilationResponse"
message="tns:ISearchSiteAdministrationServiceApplication_StartScopesCompilation_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetScopesCount">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesCount_InputMessage" />
            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCountResponse" message="tns:ISearchSiteAdministrationServiceApplication_GetScopesCount_OutputMessage" />
            </wsdl:operation>
            <wsdl:operation name="GetVisibleScopesCount">
                <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_InputMessage" />
                <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCountResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetVisibleScopesCount_OutputMessage" />
                </wsdl:operation>
                <wsdl:operation name="GetScopesInfo">
                    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesInfo_InputMessage" />
                    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfoResponse" message="tns:ISearchSiteAdministrationServiceApplication_GetScopesInfo_OutputMessage" />
                    </wsdl:operation>
                    <wsdl:operation name="GetScopesForConsumer">
                        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_InputMessage" />
                        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopesForConsumer_OutputMessage" />
                        </wsdl:operation>
                        <wsdl:operation name="GetUnusedScopesForConsumer">
                            <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesForConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_InputMessage" />
                            <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesForConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetUnusedScopesForConsumer_OutputMessage" />
                            </wsdl:operation>
                            <wsdl:operation name="GetScopeIDFromName">
                                <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromName

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e" message="tns:ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromNameResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeIDFromName_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsCount">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCountResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsCount_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsInfo">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsInfo_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsForConsumer">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsForConsumer"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsForConsumerResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupsForConsumer_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupIDFromName">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromName"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_InputMessage"
/>
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromNameResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetDisplayGroupIDFromName_OutputMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="AddScope">
    <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScope"
message="tns:ISearchSiteAdministrationServiceApplication_AddScope_InputMessage" />
    <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScopeResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddScope_OutputMessage" />
    </wsdl:operation>

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    <wsdl:operation name="DropScope">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScope"
message="tns:ISearchSiteAdministrationServiceApplication_DropScope_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScopeResponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropScope_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetContainingDisplayGroups">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroups"
message="tns:ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroupsResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetContainingDisplayGroups_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetScopeInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetScopeInfo_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetVolatileScopeInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetVolatileScopeInfo_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="SetScopeInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfo"
message="tns:ISearchSiteAdministrationServiceApplication_SetScopeInfo_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfoResponse"
message="tns:ISearchSiteAdministrationServiceApplication_SetScopeInfo_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetRulesCount">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCount"
message="tns:ISearchSiteAdministrationServiceApplication_GetRulesCount_InputMessage" />
      <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCountResponse"
message="tns:ISearchSiteAdministrationServiceApplication_GetRulesCount_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetRulesInfo">
      <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfo"
message="tns:ISearchSiteAdministrationServiceApplication_GetRulesInfo_InputMessage" />

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        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfoRespo
nse" message="tns:ISearchSiteAdministrationServiceApplication_GetRulesInfo_OutputMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddRule">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRule"
message="tns:ISearchSiteAdministrationServiceApplication_AddRule_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRuleResponse"
message="tns:ISearchSiteAdministrationServiceApplication_AddRule_OutputMessage" />
        </wsdl:operation>
    <wsdl:operation name="DropRule">
        <wsdl:input
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRule"
message="tns:ISearchSiteAdministrationServiceApplication_DropRule_InputMessage" />
        <wsdl:output
wsam:Action="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRuleResponse"
message="tns:ISearchSiteAdministrationServiceApplication_DropRule_OutputMessage" />
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="CustomBinding_ISearchSiteAdministrationServiceApplication"
type="tns:ISearchSiteAdministrationServiceApplication">
        <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
        <wsdl:operation name="UpdateLocationConfiguration">
            <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateLocationConf
iguration" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="PutLocationVisualization">
            <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/PutLocationVisuali
zation" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="DeleteLocationConfiguration">
            <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteLocationConf
iguration" style="document" />
            <wsdl:input>
                <soap:body use="literal" />
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal" />
            </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="GetSharepointLocationVisualizations">
            <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSharepointLocat
ionVisualizations" style="document" />

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    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetLocationVisualizations">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationVisuali
zations" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetLocationConfigurations">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationConfigu
rations" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetProxyInfo">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetProxyInfo"
style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetUserPreferenceSerializeHelper">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUserPreferenceS
erializeHelper" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetUserPreferenceSerializeHelper">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetUserPreferenceS
erializeHelper" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>

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        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSearchAlertManagerInfo">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertManagerInfo" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSearchAlertNotificationFormat">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchAlertNotificationFormat" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRuleInfo">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRuleInfo" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetRuleInfo">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetRuleInfo" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddDisplayGroup">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddDisplayGroup" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DropDisplayGroup">

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    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropDisplayGroup"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetDisplayGroupInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetDisplayGroupInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetDisplayGroupListInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupListInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetDisplayGroupListInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetDisplayGroupListInfo"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTerm"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />

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    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
      <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="AddSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSpecialTerm"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
      <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetSpecialTermsInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInf
o" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetSpecialTermsCount">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCou
nt" style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="DropSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSpecialTerm"
style="document" />
    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SetSpecialTermInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetSpecialTermInfo
" style="document" />
    <wsdl:input>

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        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSpecialTermsInfoForBestBet">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsInfoForBestBet" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSpecialTermsCountForBestBet">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSpecialTermsCountForBestBet" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetBestBet">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBet" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetBestBetForSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetForSpecialTerm" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddNewBestBet">

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    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewBestBet"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddBestBetLink">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddBestBetLink"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RemoveBestBetLink">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/RemoveBestBetLink"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetBestBetsInfoForSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfoFor
SpecialTerm" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetBestBetsCountForSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCountFo
rSpecialTerm" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>

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    <wsdl:operation name="GetBestBetsOrderInfoForSpecialTerm">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsOrderIn
foForSpecialTerm" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetBestBetsInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetBestBetsCount">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetBestBetsCount"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetBestBetInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetBestBetInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="UpdateBestBetsOrder">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/UpdateBestBetsOrde
r" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSynonym">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonym"
style="document" />
      <wsdl:input>

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        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetSynonymsCountForSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsCountForSpecialTerm" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddSynonym">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddSynonym" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="SearchServiceApplicationFaultFault">
        <soap:fault use="literal" name="SearchServiceApplicationFaultFault" namespace="" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DropSynonym">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropSynonym" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSynonymsInfoSpecialTerm">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSynonymsInfoSpecialTerm" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetLastLocationConfigurationUpdate">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLastLocationConfigurationUpdate" style="document" />

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    <wsdl:input>
      <soap:body use="literal" />
    </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetLocationDescription">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetLocationDescrip
tion" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddNewLocationConfiguration">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddNewLocationConf
iguration" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSearchApplicationName">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicati
onName" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetConsumerInformation">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumerInforma
tion" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetChangedConsumers">
  <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetChangedConsumer
s" style="document" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>

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        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetContentSourceNames">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContentSourceNames"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetManagedProperties">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetManagedProperties"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetPropertyQueryRuleCount">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetPropertyQueryRuleCount"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUrlRuleCount">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUrlRuleCount"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetScopeRowCount">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeRowCount"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetConsumers">

```

```

    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetConsumers"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetSearchApplicationDisplayName">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetSearchApplicati
onDisplayName" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddConsumer">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddConsumer"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DeleteConsumer">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DeleteConsumer"
style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetScopesManagerInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesManagerIn
fo" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetVolatileScopesManagerInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopesM
anagerInfo" style="document" />
    <wsdl:input>
        <soap:body use="literal" />

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        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetScopesManagerInfo">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopesManagerIn
fo" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="StartScopesCompilation">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/StartScopesCompila
tion" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetScopesCount">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesCount"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetVisibleScopesCount">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVisibleScopesCo
unt" style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetScopesInfo">
        <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesInfo"
style="document" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
    </wsdl:operation>

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    <wsdl:operation name="GetScopesForConsumer">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopesForConsum
er" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUnusedScopesForConsumer">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetUnusedScopesFor
Consumer" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetScopeIDFromName">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeIDFromName
" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsCount">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsCo
unt" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsIn
fo" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetDisplayGroupsForConsumer">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupsFo
rConsumer" style="document" />
      <wsdl:input>

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        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetDisplayGroupIDFromName">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetDisplayGroupIDFromName" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddScope">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddScope" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DropScope">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropScope" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetContainingDisplayGroups">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetContainingDisplayGroups" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetScopeInfo">
    <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetScopeInfo" style="document" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>

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    </wsdl:operation>
    <wsdl:operation name="GetVolatileScopeInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetVolatileScopeIn
fo" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetScopeInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/SetScopeInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRulesCount">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesCount"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetRulesInfo">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/GetRulesInfo"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddRule">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/AddRule"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DropRule">
      <soap:operation
soapAction="http://tempuri.org/ISearchSiteAdministrationServiceApplication/DropRule"
style="document" />

```

```
<wsdl:input>
  <soap:body use="literal" />
</wsdl:input>
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

## 7 Appendix B: 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® FAST™ Search Server 2010
- Microsoft® SharePoint® Server 2010

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.

## 8 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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