[MS-FSAS]:
Administration Services Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
11/06/2009	0.1	Major	Initial Availability
02/19/2010	1.0	Major	Updated and revised the technical content
03/31/2010	1.01	Editorial	Revised and edited the technical content
04/30/2010	1.02	Minor	Updated the technical content
06/07/2010	1.03	Editorial	Revised and edited the technical content
06/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
07/23/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
09/27/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.04	No change	No changes to the meaning, language, or formatting of the technical content.
12/17/2010	1.05	Major	Significantly changed the technical content.
03/18/2011	1.05	No change	No changes to the meaning, language, or formatting of the technical content.
06/10/2011	1.05	No change	No changes to the meaning, language, or formatting of the technical content.
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07/16/2012	1.05	No change	No changes to the meaning, language, or formatting of the technical content.

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Administration Services Protocol Specification

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1   Introduction

This document specifies the Administration Services Protocol. This protocol enables a protocol client to manage a search system.

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]:

GUID
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
Kerberos
NT LAN Manager (NTLM) Authentication Protocol
property set
Transmission Control Protocol (TCP)

The following terms are defined in [MS-OFCGLOS]:

best bet
content collection
crawled property
crawled property category
endpoint
featured content
full-text index catalog
full-text index field
index schema
item
keyword
keyword rank
managed property
name server
one-way synonym
promoted document
promoted expression
promoted item
promoted location
property extraction
property extractor
proximity boost
quality rank
rank profile
recall
refiner
search component
search setting
search setting context
search setting group
Simple Object Access Protocol (SOAP)

SOAP fault
two-way synonym
Web service
Web Services Description Language (WSDL)
WSDL operation
WSDL port type
XML namespace

The following terms are specific to this document:

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 technical documents, which are updated frequently. References
to other documents include a publishing year when one is available.

1.2.1   Normative References

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

[ISO-8601] International Organization for Standardization, "Data Elements and Interchange Formats
- Information Interchange - Representation of Dates and Times", ISO/IEC 8601:2004, December
2004,
http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40874&ICS1=1&ICS2
=140&ICS3=30

Note   There is a charge to download the specification.

[MS-FSCF] Microsoft Corporation, "Content Feeding Protocol Specification".

[MS-FSCMW] Microsoft Corporation, "Configuration Middleware Protocol Specification".

[MS-FSCX] Microsoft Corporation, "Configuration (XML-RPC) Protocol Specification".

[MS-FSFQL] Microsoft Corporation, "Fast Query Language Structure".

[MS-FSIADM] Microsoft Corporation, "Indexer Administration and Status Protocol Specification".

[MS-FSLRDS] Microsoft Corporation, "Linguistic Resource Data Structure".

[MS-FSMW] Microsoft Corporation, "Middleware Protocol Specification".

[MS-FSPSCFG] Microsoft Corporation, "Processor Server Configuration File Format Specification".

[MS-FSQRC] Microsoft Corporation, "Query and Result Configuration Protocol Specification".

[MS-FSQRCFG] Microsoft Corporation, "Query and Result Configuration File Format Specification".

[MS-FSRS] Microsoft Corporation, "Resource Store Protocol Specification".

[MS-FSSCFG] Microsoft Corporation, "Search Configuration File Format Specification".

[PROPVARIANT] Microsoft Corporation, "PROPVARIANT", http://msdn.microsoft.com/en-us/library/aa380072.aspx

[RFC2046] Freed, N., and Borenstein, N., "Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types", RFC 2046, November 1996, http://ietf.org/rfc/rfc2046.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

[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

[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

[WSA1.0] World Wide Web Consortium, "Web Services Addressing 1.0 - WSDL Binding", W3C Candidate Recommendation, May 2006, http://www.w3.org/TR/2006/CR-ws-addr-wsdl-20060529/

[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

[WS-Policy1.5] W3C, "Web Services Policy 1.5 - Framework", 04 September 2007, http://www.w3.org/TR/ws-policy/ws-policy-framework.pdf

[WSSE 1.0] Nadalin, A., Kaler, C., Hallam-Baker, P., and Monzillo, R., Eds., "Web Services Security: SOAP Message Security 1.0 (WS-Security 2004)", OASIS Standard 200401, March 2004, http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0.pdf

[WSSP1.2] OASIS Standard, "WS-SecurityPolicy 1.2", July 2007, http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702/ws-securitypolicy-1.2-spec-os.pdf

[XML10] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Third Edition)", February 2004, http://www.w3.org/TR/REC-xml

[XMLINFOSET] World Wide Web Consortium, "XML Information Set (Second Edition)", February 2004, http://www.w3.org/TR/2004/REC-xml-infoset-20040204

[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

[MC-NMF] Microsoft Corporation, ".NET Message Framing Protocol Specification".

[MS-FSADS] Microsoft Corporation, "Administration Database Schema".

[MS-FSO] Microsoft Corporation, "FAST Search System Overview".

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

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

1.3 Protocol Overview (Synopsis)

This document specifies a protocol that is used to manage a distributed search system.

The protocol enables a protocol client to control common administrative settings, such as how search queries are processed and how documents are processed before indexing. The protocol also enables protocol clients to retrieve updated settings to activate them. More specifically, this protocol enables a protocol client to do the following:

- Create, retrieve, and delete **search settings**, such as synonyms, promotions, and managed results

- Create, retrieve, and delete terms that are excluded from spell-checking

- Create, retrieve, and delete terms that are included or excluded from **property extraction**

- Create, retrieve, and delete **content collections**

- Manage the **index schema**

This protocol is typically used by three types of protocol clients:

- Protocol clients that primarily update administrative settings

- Protocol clients that primarily retrieve administrative settings

- Protocol clients that force activation of administrative settings

Protocol clients that update settings are typically end-user interfaces. Protocol clients that retrieve settings are typically other components that use the settings in a search system. Finally, protocol clients that force activation of administrative settings are typically either end-user interfaces or automatic jobs that run regularly. The last type of protocol client is needed to send and activate settings for **search components** that do not automatically retrieve their settings. The protocol for compilation and activation of spell-check exclusions in addition to property extraction exclusions and inclusions assumes that only one protocol client has this role.

A typical scenario for using this protocol is to configure how search queries are processed. A search components typically performs preprocessing of received query requests before executing the queries. Preprocessing can include spell-checking and synonym expansion. By using this protocol, a protocol client can update spell-check exclusions or synonyms, and the query and result service that performs the query preprocessing can use this protocol to download updated settings.

The following figure shows multiple protocol clients communicating with the protocol server.
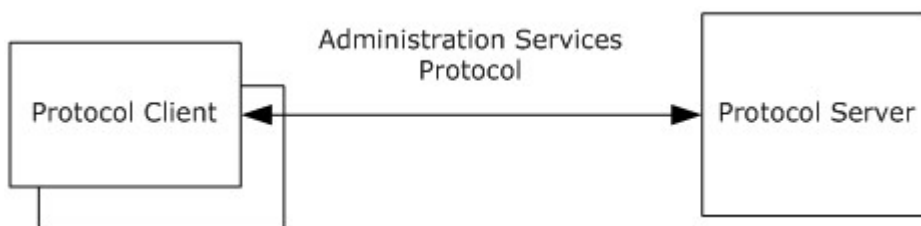
Figure 1: Communication in the Administration Services Protocol

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol to format requests and responses, as described in [SOAP1.2/1] and [SOAP1.2/2]. It transmits these messages by using the **TCP** protocol, as described in [MC-NMF].

The following diagram shows the underlying messaging and transport stack that the protocol uses:
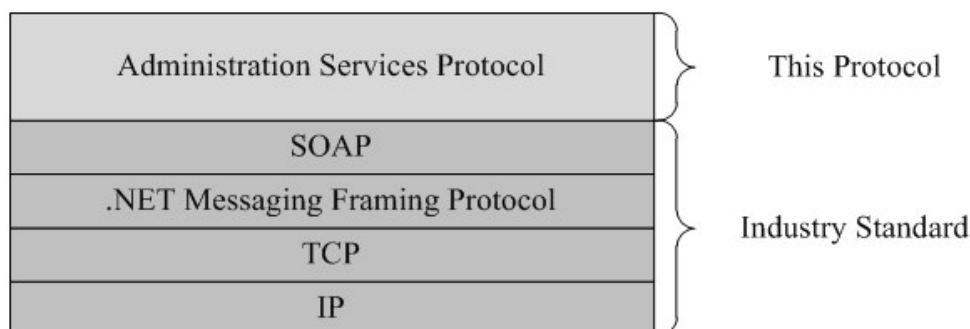
Figure 2: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server identified by a well-known URL, as described in section 2.1.

The protocol server has the location and connection information of the shared **name server**, as described in [MS-FSMW], and the location and connection information of the Resource Storage Protocol Server, as described in [MS-FSRS].

1.6 Applicability Statement

The protocol server includes operations for compiling and activating spell-check exclusion dictionaries in addition to property extraction exclusion and inclusion dictionaries. The protocol client that orchestrates these operations reads the "dirty" flag of the persisted dictionaries to see if a dictionary was modified after it was last compiled and activated. The protocol client clears this flag when the compilation and activation sequence begins. If an error occurs during the compilation and activation process, the protocol client re-enables the flag. This design enables a single protocol client to be responsible for orchestrating the compilation and activation of a dictionary at any given time. Note that different dictionaries can be compiled and activated by different protocol clients, and that this responsibility can pass between protocol clients over time.

1.7 Versioning and Capability Negotiation

None.

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

This protocol is carried out over a set of **Web services** as follows:

- Each Web Service MUST support SOAP over TCP.

- All protocol messages MUST be transported using TCP bindings at the transport level.

- Protocol messages MUST be formatted as specified in [SOAP1.2/1] SOAP Message Construct section 5. Protocol server faults MUST be returned via **SOAP faults** as specified in [SOAP1.2/1] SOAP Fault section 5.4.

- Protocol servers support security-enhanced communication between the protocol client and protocol server. The protocol implementation uses SOAP message security. Authentication occurs through either **Kerberos** or **NTLM**. The protocol client that uses the Web services MUST be a member of the FASTSearchAdministrators local group.

The protocol server has nine **endpoints (2)**, each of which is formed by appending a postfix to the URL of the protocol server. The postfixes are as follows:

- ContentCollectionService.svc

- CompiledDictionaryService.svc

- DeploymentService.svc

- KeywordService.svc

- LinguisticManagerService.svc

- PersistedDictionaryService.svc

- SchemaService.svc

- SpellCheckerService.svc

- TermEntityExtractorService.svc

An example of a protocol server endpoint (2) is http://www.contoso.com:3333/SpellCheckerService.svc.

2.2   Common Message Syntax

This section contains common definitions that this protocol uses. The syntax of the definitions uses XML Schema as defined in [XML10], [XMLNS], [XMLINFOSET], [XMLSCHEMA1], and [XMLSCHEMA2], and WSDL as defined in [WSDL].

2.2.1 Namespaces

This specification defines and references various **XML namespaces** by 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. The following table describes these namespaces.

Prefix	Namespace URI	Reference
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsaw	http://www.w3.org/2006/05/addressing/wsdl	[WSA1.0]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
wsu	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd	[WSSE 1.0]
sp	http://schemas.xmlsoap.org/ws/2005/07/securitypolicy	[WSSP1.2]
msa	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
scg	http://schemas.datacontract.org/2004/07/System.Collections.Generic	
sco	http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel	
xsd	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
tns	http://Microsoft.SharePoint.Search.Extended.Administration	
wsp	http://schemas.xmlsoap.org/ws/2004/09/policy	[WS-Policy1.5]

2.2.2 Messages

None.

2.2.3 Elements

The following table specifies the set of common XML Schema elements for this specification. XSD element definitions that are specific to a particular **WSDL operation** are described with the operation.

Element	Description
AdminExceptionWCF	The details of a SOAP fault.
AddTerm	The input data for an **AddTerm** operation.
AddTermResponse	The result data for an **AddTerm** operation.
Clean	The input data for a **Clean** operation.
CleanResponse	The result data for a **Clean** operation.
CleanTerms	The input data for a **CleanTerms** operation.

Element	Description
CleanTermsResponse	The result data for a **CleanTerms** operation.
Contains	The input data for a **Contains** operation.
ContainsResponse	The result data for a **Contains** operation.
ContainsTerm	The input data for a **ContainsTerm** operation.
ContainsTermResponse	The result data for a **ContainsTerm** operation.
Get	The input data for a **Get** operation.
GetResponse	The result data for a **Get** operation.
GetAll	The input data for a **GetAll** operation.
GetAllResponse	The result data for a **GetAll** operation.
GetAllTerms	The input data for a **GetAllTerms** operation.
GetAllTermsResponse	The result data for a **GetAllTerms** operation.
GetTerms	The input data for a **GetTerms** operation.
GetTermsResponse	The result data for a **GetTerms** operation.
RemoveTerm	The input data for a **RemoveTerm** operation.
RemoveTermResponse	The result data for a **RemoveTerm** operation.

2.2.3.1 AdminExceptionWCF

The **AdminExceptionWCF** element is of type **AdminExceptionWCF**. Section 2.2.4.1 specifies the **AdminExceptionWCF** complex type.

The following example specifies the structure of this element.

```
<xsd:element name="AdminExceptionWCF" nillable="true" type="tns:AdminExceptionWCF" />
```

2.2.3.2 AddTerm

The **AddTerm** element provides input data for an **AddTerm** operation, as specified in section 3.1.4.1 and section 3.2.4.1. The element contains information about the term to add and to which linguistic feature it is added.

The following example specifies the structure of this element.

```
<xsd:element name="AddTerm">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="term" nillable="true" type="xsd:string" />
    </xsd:sequence>
```

```
      </xsd:complexType>
    </xsd:element>
```

name: The identifier of a spell-checker or **property extractor**.

linguisticTermType: The type of the term.

term: The term to add.

2.2.3.3   AddTermResponse

The **AddTermResponse** element provides result data for an **AddTerm** operation, as specified in section 3.1.4.1 and section 3.2.4.1.

The following example specifies the structure of this element.

```
<xsd:element name="AddTermResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

The element is empty.

2.2.3.4   Clean

The **Clean** element provides input data for a **Clean** operation, as specified in section 3.1.4.2 and section 3.2.4.2. The element contains information about a linguistic feature.

The following example specifies the structure of this element.

```
<xsd:element name="Clean">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

2.2.3.5   CleanResponse

The **CleanResponse** element contains result data for a **Clean** operation, as specified in section 3.1.4.2 and section 3.2.4.2.

The following example specifies the structure of this element.

```
<xsd:element name="CleanResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
```

```
  </xsd:element>
```

The element is empty.

2.2.3.6   CleanTerms

The **CleanTerms** element provides input data for a **CleanTerms** operation, as specified in section 3.1.4.3 and section 3.2.4.3. The element contains information about a linguistic feature and the type of terms to delete.

The following example specifies the structure of this element.

```
<xsd:element name="CleanTerms">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

linguisticTermType: The type of the term.

2.2.3.7   CleanTermsResponse

The **CleanTermsResponse** element contains result data for a **CleanTerms** operation, as specified in section 3.1.4.3 and section 3.2.4.3.

The following example specifies the structure of this element.

```
<xsd:element name="CleanTermsResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

2.2.3.8   Contains

The **Contains** element provides input data for a **Contains** operation, as specified in section 3.1.4.4 and section 3.2.4.4. The element contains information about a linguistic feature.

The following example specifies the structure of this element.

```
<xsd:element name="Contains">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
    </xsd:sequence>
```

```
    </xsd:complexType>
  </xsd:element>
```

name: The identifier of a linguistic feature.

2.2.3.9   ContainsResponse

The **ContainsResponse** element provides result data for a **Contains** operation, as specified in section 3.1.4.4 and section 3.2.4.4. The element contains information about whether a linguistic feature exists.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsResult: The value is **true** if the linguistic feature exists; otherwise, the value is **false**.

2.2.3.10   ContainsTerm

The **ContainsTerm** element provides input data for a **ContainsTerm** operation, as specified in section 3.1.4.5 and section 3.2.4.5. The element contains information about a linguistic feature, a term, and the type of term.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsTerm">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="term" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

linguisticTermType: The type of the term.

Term: The term for which to search.

2.2.3.11   ContainsTermResponse

The **ContainsTermResponse** element provides result data for a **ContainsTerm** operation, as specified in section 3.1.4.5 and section 3.2.4.5. The element contains a Boolean value that specifies whether the term exists.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsTermResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsTermResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsTermResult: The value is **true** if the term exists; otherwise, the value is **false**.

2.2.3.12 Get

The **Get** element provides input data for a **Get** operation, as specified in section 3.1.4.6 and section 3.2.4.6. The element contains information about the number of elements to be retrieved and the direction in which the results are to be sorted. The offset and count parameters enable protocol clients to retrieve batches of terms from a potentially large result set.

The following example specifies the structure of this element.

```
<xsd:element name="Get">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="sortField" type="tns:SortField" />
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

sortfield: The field to sort the result by.

direction: The direction in which to sort.

offset: The number of linguistic features to skip after sorting the result.

count: The number of linguistic features to retrieve.

2.2.3.13 GetResponse

The **GetResponse** element provides result data for a **Get** operation, as specified in section 3.1.4.6 and section 3.2.4.6. The element contains an array of linguistic feature identifiers.

The following example specifies the structure of this element.

```
<xsd:element name="GetResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetResult" nillable="true"
type="tns:ArrayOfLinguisticsIdentifierDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetResult: An array of linguistic feature identifiers.

2.2.3.14   GetAll

The **GetAll** element contains input data for a **GetAll** operation, as specified in section 3.1.4.7 and section 3.2.4.7.

The following example specifies the structure of this element.

```
<xsd:element name="GetAll">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

The element is empty.

2.2.3.15   GetAllResponse

The **GetAllResponse** element provides result data for a **GetAll** operation, as specified in section 3.1.4.7 and section 3.2.4.7. The element contains an array of linguistic feature identifiers.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllResult" nillable="true"
type="tns:ArrayOfLinguisticsIdentifierDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllResult: An array of linguistic feature identifiers.

2.2.3.16   GetAllTerms

The **GetAllTerms** element provides input data for a **GetAllTerms** operation, as specified in section 3.1.4.8 and section 3.2.4.8. The element contains information about the linguistic feature and the type of terms to retrieve.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllTerms">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

linguisticsTermType: The type of term.

2.2.3.17   GetAllTermsResponse

The **GetAllTermsResponse** element provides result data for a **GetAllTerms** operation, as specified in section 3.1.4.8 and section 3.2.4.8. The element contains an array of terms.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllTermsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllTermsResult" nillable="true"
type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllTermsResult: An array of terms.

2.2.3.18   GetTerms

The **GetTerms** element provides input data for a **GetTerms** operation, as specified in section 3.1.4.9 and section 3.2.4.9. The element contains information about the linguistic feature, the type and number of terms to retrieve, and how to sort the terms. The offset and count parameters allow protocol clients to retrieve batches of terms from a potentially large result set.

The following example specifies the structure of this element.

```
<xsd:element name="GetTerms">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

linguisticTermType: The type of the term.

direction: The direction in which to sort the result.

offset: The number of terms to skip after sorting the result.

count: The number of terms to retrieve.

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2.2.3.19 GetTermsResponse

The **GetTermsResponse** element provides result data for a **GetTerms** operation, as specified in section 3.1.4.9 and section 3.2.4.9. The element contains an array of terms.

The following example specifies the structure of this element.

```
<xsd:element name="GetTermsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetTermsResult" nillable="true"
type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetTermsResult: An array of terms.

2.2.3.20 RemoveTerm

The **RemoveTerm** element provides input data for a **RemoveTerm** operation, as specified in section 3.1.4.10 and section 3.2.4.10. The element contains information about the linguistic feature, the type of term to delete, and the term.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveTerm">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType" type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="term" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The identifier of a linguistic feature.

linguisticTermType: The type of term.

term: The term to delete.

2.2.3.21 RemoveTermResponse

The **RemoveTermResponse** element provides result data for a **RemoveTerm** operation, as specified in section 3.1.4.10 and section 3.2.4.10. The element contains a Boolean value that specifies whether the term was deleted.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveTermResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveTermResult" type="xsd:boolean" />
```

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

RemoveTermResult: The value is **true** if the term was deleted; otherwise, the value is **false**.

2.2.4 Complex Types

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

Complex type	Description
AdminExceptionWCF	Contains the details of a SOAP fault.
ArrayOfContextDTO	An array of elements of type **ContextDTO**.
ArrayOfPromotedItemDTO	An array of elements of type **PromotedItemDTO**.
ArrayOfSearchSettingDTO	An array of elements of type **SearchSettingDTO**.
ArrayOfKeyValueOfstringstring	An array of key-value pairs of strings.
ArrayOfKeyValuePairOfstringstring	An array of key-value pairs of strings.
ArrayOfLinguisticsIdentifierDTO	An array of elements of type **LinguisticsIdentifierDTO**.
ArrayOfstring	An array of string values.
BestBetDTO	Contains information about a **best bet**.
CommonDTOMembers	Contains information that is common for **search setting groups**, **keywords**, search settings, **search setting contexts**, and context expression nodes.
ContentCollectionDTO	Contains information about a content collection.
ContextDTO	Contains information about a search setting context.
ContextExpressionDTO	Contains information about a context expression node.
FeaturedContentDTO	Contains information about **featured content**.
KeyValuePairOfstringstring	Contains a key/value pair of strings.
KeywordDTO	Contains information about a keyword.
LinguisticsIdentifierDTO	Contains the unique identifier of a linguistic feature.

Complex type	Description
ManagedResultDTO	Contains properties common to featured content and best bets.
PromotedItemDTO	Contains information common to **promoted documents**, **promoted expressions**, and **promoted locations**.
PromotedDocumentDTO	Contains information about a promoted document.
PromotedExpressionDTO	Contains information about a promoted expression.
Promoted LocationDTO	Contains information about a promoted location.
PromotionDTO	Contains information about a promotion.
ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7	An array of string values.
SearchSettingDTO	Contains information about a search setting.
SearchSettingGroupDTO	Contains information about a search setting group.
SynonymDTO	Contains information about a synonym.
ManagedPropertyDTO	Contains information about a **managed property**.
RefinerConfigurationDTO	Contains information about a **refiner** configuration.
CategoryDTO	Contains information about a **crawled property category**.
FullTextIndexDTO	Contains information about a full-text index field.
CrawledPropertyDTO	Contains information about a **crawled property**.
RankProfileDTO	Contains information about a **rank profile**.
QualityComponentDTO	Contains information about a **quality rank** component.
FullTextIndexRankComponentDTO	Contains information about a **full-text index field** rank component.
ManagedPropertyBoostComponentDTO	Contains information about a managed property **keyword rank** component.
FullTextIndexMappingDTO	Contains information about the full-text index fields of which managed properties are members.

Complex type	Description
ArrayOfCrawledPropertyDTO	An array of elements of type **CrawledPropertyDTO**.
ArrayOfManagedPropertyDTO	An array of elements of type **ManagedPropertyDTO**.
ArrayOfguid	An array of **GUIDs**.
ArrayOfCategoryDTO	An array of elements of type **CategoryDTO**.
ArrayOfFullTextIndexDTO	An array of elements of type **FullTextIndexDTO**.
ArrayOfRankProfileDTO	An array of elements of type **RankProfileDTO**.
ArrayOfFullTextIndexMappingDTO	An array of elements of type **FullTextIndexMappingDTO**.
ArrayOfFullTextIndexRankComponentDTO	An array of elements of type **FullTextIndexRankComponentDTO**.
ArrayOfManagedPropertyBoostComponentDTO	An array of elements of type **ManagedPropertyBoostComponentDTO**.
ArrayOfQualityComponentDTO	An array of elements of type **QualityComponentDTO**.

2.2.4.1 AdminExceptionWCF

The **AdminExceptionWCF** complex type contains data for an error message.
AdminExceptionWCF contains an error code and an array of string values that the protocol client uses to create a valid error message.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="AdminExceptionWCF">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="ErrorCode" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="Values" nillable="true" type="msa:ArrayOfstring" />
  </xsd:sequence>
</xsd:complexType>
```

ErrorCode: Represents an error condition. The following table lists the valid error codes.

Values: This array of strings contains up to four values that provide further explanation of the error. Typically, these values contain the name or identifier of the elements that were involved in the operation that failed. The value columns in the following table list the values that MUST be included for each error code.

Error code	Description	Value 1	Value 2
E101	Unsupported sort field.	The sort field that is not supported.	Not applicable.
E102	The protocol server specified in [MS-FSCMW] could not be found.	Not applicable.	Not applicable.
E103	An error occurred in the persistence layer.	Not applicable.	Not applicable.
E104	Could not resolve a constant as an environment variable.	The constant.	Not applicable.
E105	Could not create client proxy for a back-end component.	The name of the back-end component.	Not applicable.
E106	Failed to call a back-end component.	The name of the back-end component.	Not applicable.
E107	Failed to communicate with the WCF service.	Not applicable	Not applicable
E108	Could not retrieve database meta data from the 'admin.meta' table.	Not applicable	Not applicable
E109	Error occurred during deployment. Please review the AdminService logs.	Not applicable	Not applicable
E201	Invalid content collection name.	The name of the content collection.	Not applicable.
E202	Invalid configuration of the protocol specified in [MS-FSCMW].	Not applicable.	Not applicable.
E204	A content collection with the same name already exists.	The name of the content collection.	Not applicable.
E205	The content collection name is too long.	The name of the content collection.	Maximum size, in characters, of a content collection name.
E206	Unable to resume a temporarily stopped process.	The number of times an attempt to resume was retried.	Not applicable.
E207	Failed to add the content collection.	The name of the content collection.	Not applicable.
E208	Cannot retrieve all content collections.	Not applicable.	Not applicable.
E209	Failed to retrieve the configuration from the protocol server specified in [MS-FSCMW].	Not applicable.	Not applicable.
E210	Failed to update content collection.	The name of the content collection.	Not applicable.

Error code	Description	Value 1	Value 2
E211	Error in the configuration of the protocol server specified in [MS-FSIADM].	Not applicable.	Not applicable.
E212	Unable to retrieve information from the protocol server specified in [MS-FSIADM].	The information that could not be retrieved.	Not applicable.
E213	The content collection name is invalid.	The name of the content collection.	Not applicable.
E214	Invalid parameter value.	The parameter value.	Not applicable.
E216	The content collection does not exist.	The name of the content collection.	Not applicable.
E302	The operation is not supported.	The name of the operation.	Not applicable.
E303	The keyword already exists as a synonym.	The name of the keyword.	Not applicable.
E304	The keyword already exists in a search setting group.	The name of the keyword.	The name of the search setting group.
E306	The record was not found in the table.	The identifier of the record.	The table name.
E308	The synonym already exists as a keyword.	The name of the synonym.	Not applicable.
E310	The search setting group already exists.	The name of the search setting group.	Not applicable.
E311	A context expression node of type **"NOT"** can have only one child.	Not applicable.	Not applicable.
E312	The search setting already exists in a search setting group.	The name of the search setting.	The name of the search setting group.
E313	Cannot add the search setting to the filtered collection because it does not match the filter.	The name of the search setting.	The filter.
E314	The synonym already exists.	The name of the synonym.	Not applicable.
E315	The root node of the context expression is not set.	Not applicable.	Not applicable.
E316	The keyword **A** already exists as a synonym for another keyword **B**.	The keyword **A**.	The keyword **B**.
E317	The search setting does not exist.	The name of the search setting.	Not applicable.
E318	The term is reserved and cannot be used as a keyword.	The term.	Not applicable.

Error code	Description	Value 1	Value 2
E319	The **promoted item** already exists for a promotion.	The promoted item.	Not applicable.
E401	The persisted dictionary does not exist.	The name of the persisted dictionary.	Not applicable.
E402	A persisted dictionary with the same name already exists.	The name of the persisted dictionary.	Not applicable.
E404	An entry with the specified key does not exist.	The key value.	Not applicable.
E405	An entry with the same key already exists.	The key value.	Not applicable.
E406	A persisted dictionary name is not valid.	An expression that specifies valid characters.	Not applicable.
E501	The managed property does not exist.	The name of the managed property.	Not applicable.
E502	The crawled property category already exists.	The name of the crawled property category.	Not applicable.
E503	The crawled property is already mapped to a crawled property category.	The **GUID** of the crawled property.	Not applicable.
E504	A managed property with the specified name already exists.	The name of the managed property.	Not applicable.
E505	A managed property cannot be deleted.	The name of the managed property.	Not applicable.
E506	The refiner configuration does not exist.	Not applicable.	Not applicable.
E507	A full-text index field with the specified name already exists.	The name of the full-text index field.	Not applicable.
E508	A full-text index field with the specified name does not exist.	The name of the full-text index field.	Not applicable.
E509	The full-text index field with the specified name cannot be deleted.	The name of the full-text index field.	Not applicable.
E510	Cannot create the crawled property.	Not applicable.	Not applicable.
E513	Unable to retrieve the crawled property with the specified name.	The name of the crawled property.	Not applicable.
E514	Cannot delete the crawled property with the specified name.	The name of the crawled property.	Not applicable.
E515	Unable to add the crawled property to the crawled	The GUID of the	Not applicable.

Error code	Description	Value 1	Value 2
	property category.	crawled property.	
E516	The **RefinementEnabled** property of the managed property is set to **false**.	Not applicable.	Not applicable.
E517	The crawled property does not exist.	Not applicable.	Not applicable.
E518	A crawled property category with the specified name does not exist.	The name of the crawled property category.	Not applicable.
E519	Cannot delete the default full-text index field.	The name of the full-text index field.	Not applicable.
E520	The full-text index rank component does not exist.	Not applicable.	Not applicable.
E521	An error occurred while deleting the full-text index rank component.	Not applicable.	Not applicable.
E522	The keyword rank component does not exist.	Not applicable.	Not applicable.
E523	An error occurred while deleting the keyword rank component.	Not applicable.	Not applicable.
E524	The quality rank component does not exist.	Not applicable.	Not applicable.
E525	An error occurred while deleting the quality rank component.	Not applicable.	Not applicable.
E526	A rank profile with the specified name already exists.	The name of the rank profile.	Not applicable.
E527	An error occurred while creating the quality rank component.	Not applicable.	Not applicable.
E528	An error occurred while creating the full-text index rank component.	Not applicable.	Not applicable.
E529	An error occurred while creating the keyword rank component.	Not applicable.	Not applicable.
E530	The rank profile with the specified name does not exist.	The name of the rank profile.	Not applicable.
E531	Cannot delete the default rank profile.	The name of the rank profile.	Not applicable.
E532	An error occurred while deleting the full-text index mapping.	Not applicable.	Not applicable.
E533	The managed property used as a freshness managed property reference is not of the type **ManagedType Datetime**.	Not applicable.	Not applicable.
E534	The specified integer value does not correspond to a valid managed type.	The value.	Not applicable.

Error code	Description	Value 1	Value 2
E535	The crawled property is not associated with a crawled property category.	The GUID of the crawled property.	Not applicable.
E536	The specified integer value does not represent a valid managed property sortable type.	The value.	Not applicable.
E537	The managed property and crawled property already exist.	Not applicable.	Not applicable.
E538	When getting a crawled property by name, the GUID and variant type MUST also be set.	Not applicable.	Not applicable.
E539	Invalid parameter set.	Not applicable.	Not applicable.
E540	The specified integer value does not represent a valid **DateTime** resolution type.	The specified integer value.	Not applicable.
E541	The operation could not be finished successfully.	Not applicable.	Not applicable.
E542	A crawled property cannot be associated with the managed property.	Not applicable.	Not applicable.
E543	The schema operation requires that the content of the index is deleted. The server MUST be configured to enable this by setting the AllowIndexPurgeOnSchemaUpdate option in the configuration.	Not applicable.	Not applicable.
E544	The item summary type specified for the managed property does not exist.	Missing item summary type.	Not applicable.
E545	Enabling substring on a managed property requires that the content of the index is deleted. The server MUST be configured to enable this by setting the AllowIndexPurgeOnSchemaUpdate option in the configuration.	Not applicable.	Not applicable.
E546	Only managed properties of type "text" can be mapped	The name of the managed property	Not applicable
E547	Could not delete crawled property category mapping to **property set**	The crawled property category mapping.	Not applicable
E548	Every managed property mapped to the same full-text index field MUST have the same **SubstringEnabled** setting.	Not applicable	Not applicable
E549	A managed property with the **StemmingEnabled** setting enabled cannot have the **SubstringEnabled** setting enabled.	Not applicable	Not applicable
E550	Managed property boost component already exists.	Not applicable	Not applicable
E551	Stemming value cannot be set for this type of managed property.	Not applicable	Not applicable
E552	Error when communicating with the protocol server	The	Not applicable

Error code	Description	Value 1	Value 2
	specified in [MS-FSCX]	communication error message	
E553	Result fallback cannot be updated because summary type of this managed property is not dynamic	Not applicable	Not applicable
E600	Could not find the file.	The name of the file.	Not applicable.
E601	Could not read the content of the file.	The name of the file.	Not applicable.
E701	Could not upload to the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E702	Could not download from the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E703	Could not delete from the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E704	Could not retrieve the time stamp from the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E705	Could not list resources on the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E706	Could not check the existence of a resource on the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E707	The path points to a directory; a file was expected.	The path.	Not applicable.
E708	Could not retrieve the time at which the resource was last modified.	The resource identifier.	Not applicable.
E709	Could not retrieve the name of the resource.	The resource identifier.	Not applicable.
E710	Could not retrieve the type of the resource.	The resource identifier.	Not applicable.
E711	Unable to communicate with the protocol server specified in [MS-FSRS].	Not applicable.	Not applicable.
E712	The file path is invalid.	The file path.	Not applicable.
E801	Invalid result-view name. Only lowercase alphanumeric characters are valid	The result view name.	Not applicable.
E802	Is a reserved result-view name	The result view name.	Not applicable
E803	Invalid managed property reference in result-view name. Managed property MUST exist.	The managed property reference.	The result view name.
E804	Multiple occurrences of managed property reference in result-view name.	The managed property reference	The result view name.

Error code	Description	Value 1	Value 2
E806	Invalid refiner name. Names MUST be lowercase alphanumeric.	The refiner name.	Not applicable.
E807	Duplicate refiner name.	The refiner name.	Not applicable.
E808	managed propertyRefiner MUST contain exactly one managed property reference with type not set to modifier.	The refiner name.	Not applicable.
E809	Refiner contains more than one managed property reference of type modifier.	The refiner name.	Not applicable.
E810	Refiner managed property reference does not exist.	The refiner managed property reference.	Not applicable.
E811	Refiner modifier managed property reference does not exist.	The refiner modifier managed property reference	Not applicable.
E812	Invalid resolution for numeric refiner. MUST be positive float.	The refiner name.	Not applicable.
E813	Invalid divisor for numeric refiner. MUST be positive float.	The refiner name.	Not applicable.
E814	Invalid intervals for numeric refiner. MUST be positive integer.	The refiner name	Not applicable.
E815	Numeric refiner managed property reference does not exist.	The refiner managed property reference.	Not applicable.
E816	Numeric refiner managed property reference has incompatible numeric type.	The refiner managed property reference.	The type.
E818	Full text index name collides with other managed property, scope-field or full text index.	The full text index name.	Not applicable.
E819	Only one full text index can be declared default.	Not applicable.	Not applicable.
E820	Invalid full text index name. Only lowercase alphanumeric characters are valid.	The full text index name.	Not applicable.
E821	Maximum number of managed property references in full text index is 8.	The full text index name.	The actual number of entries.
E822	Invalid managed property reference in full text index. Managed property MUST exist.	The managed property reference.	The full text index name.
E823	Invalid managed property reference in full text index. Managed property MUST be of type text.	The managed property reference.	The full text index name.
E824	Managed property reference occurs more than once in the full text index'.	The managed property reference.	The full text index name.

Error code	Description	Value 1	Value 2
E827	No managed property reference with specified importance level for full text index. All integers from 1-x MUST be represented as an importance level, with 7 being the maximum value for x.	The importance level.	The full text index name.
E828	Managed property (local-field) name occurs more than once in full text index.	Managed property name.	The full text index name.
E832	Invalid substring value for full text index. MUST be a positive integer.	The full text index name.	Not applicable.
E833	Invalid managed property name. Reserved name.	The managed property name.	Not applicable.
E834	Invalid managed property name. Only lowercase alphanumeric characters are valid.	The managed property name.	Not applicable.
E835	Duplicate managed property name in field-list.	The managed property name.	Not applicable.
E837	Invalid **maxIndexSize** element for managed property. Valid value range: 0 through 2097151 kilobytes.	The index size.	Not applicable.
E838	Invalid **maxResultSize** for managed property. Valid value range: 0 through 2097151 kilobytes.	The result size.	Not applicable.
E839	Invalid decimal-precision for decimal managed property. Valid value range is -28 to 28.	The decimal precision.	The managed property.
E840	The fallback reference references a non-existent managed property.	The fallback reference.	Not applicable.
E841	Fallback-ref field needs to be in result. Summary type MUST be set to "static".	The fallback reference.	Not applicable.
E842	Invalid substring value for managed property. MUST be a positive integer.	The managed property name.	Not applicable.
E843	Managed property is of the wrong type. Only text properties can have a full text index-mapping.	The managed property	The managed property type.
E844	Invalid full text index name in full text index mapping for managed property. Full text index does not exist.	The full text index name.	The managed property.
E845	Invalid full text index name (composite-fieldname) in the full text index mapping (composite-mapping) for managed property: composite-field does not have local-field child objects.	The composite field name.	The managed property name.
E846	Duplicate full text index mapping for managed property. There can be only one mapping to the same full text index for a specified managed property in the field-list.	The full text index name.	The managed property.
E849	Only one rank profile can be the default profile.	Not applicable	Not applicable.
E850	Rank-profile name is invalid. Rank profile names MUST be lowercase.	The rank profile name.	Not applicable.

Error code	Description	Value 1	Value 2
E851	Rank profile names MUST be unique.	The rank profile name.	Not applicable.
E852	Rank profile name MUST be unique in the managed property namespace. A managed property already exists.	The rank profile name.	The managed property name.
E853	Invalid value for **StopWordThreshold** in rank profile. The managed property MUST be a float or integer in the range from 0 through 4294967295.	The stop word threshold.	The rank profile name.
E854	Invalid value for **PositionStopWordThreshold** in rank profile. MUST be a number in the range from 0 through 4294967295.	The position stop word threshold.	The rank profile name.
E857	Invalid quality weight in rank profile. The weight value MUST be a non-negative integer.	The quality weight.	The rank profile name.
E858	Duplicate quality weight component name found in the rank profile.	The quality weight.	The rank profile name.
E859	Problem with quality weight component in the rank profile. No managed property with name and type int or float with sorting enabled exists.	The rank profile name.	The managed property name.
E861	Invalid weight for authority weight component of the rank profile. The weight value MUST be a non-negative integer.	The quality weight.	The rank profile name.
E862	The authority weight component of rank profile references the managed property, which is not referenced by the full text index.	The authority weight.	The managed property name.
E863	Authority component error for the rank profile. A managed property reference exists in a full text index, but it has wrong type. Only type "external" is valid.	The rank profile name.	The managed property reference.
E864	No managed property reference exists for the authority weight of the rank profile. This is valid only if the authority node has weight set to 0.	The rank profile name.	Not applicable.
E865	Invalid weight for query authority component of the rank profile. The weight value MUST be a non-negative integer.	The weight.	The rank profile name.
E866	Query authority for the rank profile. A managed property reference does not exist in any full text index mappings.	The rank profile.	The managed property reference.
E867	Query authority for the rank profile. A managed property reference exists in the full text index mappings, but it has the wrong type. Only type "external" is valid.	The rank profile.	The managed property reference.
E868	No managed property reference exists in authority node of the rank profile. This is valid only if authority component has weight 0.	The rank profile.	Not applicable.

Error code	Description	Value 1	Value 2
E869	Invalid weight for freshness component of rank profile. The weight value MUST be a non-negative integer.	The weight.	The rank profile.
E870	Freshness for the rank profile. A managed property reference does not exist in the list of managed properties. Remove the reference and set freshness weight to 0 to disable the freshness rank component.	The rank profile.	The managed property reference.
E871	Freshness for the rank profile. A managed property reference exists in the list of managed properties, but has wrong type. Type MUST be datetime.	The rank profile.	The managed property reference.
E872	No managed property reference exists for the freshness rank component of the rank profile. This is valid only if freshness weight is set to 0.	The rank profile.	Not applicable.
E873	Invalid resolution for freshness component of the rank profile. **Datetime** resolution MUST be "second", "minute", "hour", "day", or "year".	The resolution.	The rank profile.
E874	Invalid weight associated with the managed property boost component of the rank profile. Weight value MUST be a non-negative integer.	The weight.	The rank profile.
E875	Managed property Boosts (rank profile {0}): Managed property {1} does not exist in the list of managed properties.	The rank profile.	The managed property.
E876	Managed property Boosts for rank profile: Boost for the managed property is illegal. A parsing error occurred when parsing the values for the managed property boost component. Expecting comma-separated list of **keywords,boost** values.	The rank profile.	The managed property.
E879	The full text index reference in the rank profile does not exist.	The full-text index.	The rank profile.
E884	A managed property weight for the full text index in rank profile is referring to the authority managed property. This is not allowed.	The full-text index.	The rank profile.
E885	A field weight for the full-text index in the rank-profile is referring to the managed property used for query-authority. This is not allowed.	The full-text index	The rank profile.
E889	Refiner has a modifier managed property reference that is not searchable.	The refiner name.	The managed property reference.
E890	Refiner has a managed property reference that is not searchable.	The refiner name.	The managed property reference.
E999	An unknown error occurred.	Not applicable.	Not applicable.

The following table describes the errors messages with three or more values.

Release: July 16, 2012

Error code	Description	Value 1	Value 2	Value 3	Value 4
E805	Result-view has a managed property reference which contains a fallback reference to field. This fallback managed property MUST also be included in the result-view.	The result view.	The managed property reference.	The field.	Not applicable.
E817	Numeric refiner with managed property reference of type {0} is associated with an invalid conversion specifier in range-label.	The refiner name	The managed property reference.	The type.	The conversion specifier.
E825	Invalid importance level for managed property reference in full text index. MUST be integer in the range 1-8.	The importance level.	The managed property reference.	The full text index name.	Not applicable.
E826	Invalid field-separation-length for managed property reference in full text index. MUST be integer in the range from 0 through 256.	The separation length.	The managed property reference.	The full text index name.	Not applicable.
E829	Invalid importance-level for managed property reference (local-field) in full text index. MUST be integer in the range from 1 through 8.	The importance level.	The managed property reference.	The full text index name.	Not applicable.
E831	Invalid drill-level for managed property (local-field) in full text index. MUST be integer in the range from 1 through 8.	The drill level.	The managed property.	The full text index name.	Not applicable.
E836	Internal property naming conflict. Managed property name {0} that begins with {1} cannot be used when {2} is used for another field.	The managed property name.	A restricted prefix. One of the values "elem", "vec", "lem", "res", "nco", "ncn" or "read".	The conflicting managed property name (name without restricted prefix).	Not applicable.
E848	Invalid managed property importance level in the full text index mapping for the managed property associated with the internal property name. Legal range is from 1 through 8.	The managed property.	The internal property name.	The importance level.	Not applicable.

Error code	Description	Value 1	Value 2	Value 3	Value 4
E855	Rank model template name does not correspond to name specified in the rank profile.	The referenced rank model template name.	The name specified in the rank model template definition.	The rank profile name.	Not applicable.
E856	Rank model template specified in the rank profile cannot be loaded. File does not exist.	The rank model template.	The rank profile.	The file name.	Not applicable.
E860	Invalid weight for quality weight component of the rank profile. Weight value MUST be a non-negative integer.	The weight.	The quality weight component.	The rank profile.	Not applicable.
E877	Managed property Boosts in the rank profile. Boost for managed property contains non-valid values: The number of comma-separated items (keyword,boost) MUST be even.	The rank profile.	The managed property.	The number of items.	Not applicable.
E878	Managed property Boosts. Boost for a managed property has illegal values: Found non-integer boost value.	The rank profile.	The managed property.	The boost value.	Not applicable.
E880	Invalid weight for the proximity component for the full text index of the rank profile. Weight value MUST be a non-negative integer.	The weight.	The full text index.	The rank profile.	Not applicable.
E881	Invalid weight for the context component for the full text index of the rank profile. Weight value MUST be a non-negative integer.	The weight.	The full text index.	The rank profile.	Not applicable.
E882	Invalid value for managed property weight component of the full text index rank of the rank profile. Value attribute MUST be a non-negative integer.	The weight.	The field reference.	The full text index rank.	The rank profile.
E883	A reference to the managed property occurs in more than one field-weight for full text index	The managed property.	The full text index.	The rank profile.	Not applicable.

Error code	Description	Value 1	Value 2	Value 3	Value 4
	in the rank profile. This is not allowed.				
E886	Rank field-weight reference for the full text index of the rank profile is not mapped to the full text index.	The weight	The full text index.	The rank profile.	The full text index.
E887	Rank field-weight for the full text index in the rank profile has an invalid value. Boost value MUST be a non-negative integer.	The weight.	The full text index.	The rank profile.	The value.
E888	Full text index contains importance levels of managed properties (excluding any field used for authority or query authority boosting), but the rank profile assigns context boosts to levels only.	The full text index.	The number of importance levels.	The rank profile.	The number of possible importance levels.

2.2.4.2 ArrayOfContextDTO

The **ArrayOfContextDTO** complex type contains an array of elements of type **ContextDTO**.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfContextDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="ContextDTO"
      nillable="true" type="tns:ContextDTO" />
  </xsd:sequence>
</xsd:complexType>
```

2.2.4.3 ArrayOfPromotedItemDTO

The **ArrayOfPromotedItemDTO** complex type contains an array of elements of type **PromotedItemDTO**.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfPromotedItemDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedItemDTO"
      nillable="true" type="tns:PromotedItemDTO" />
  </xsd:sequence>
</xsd:complexType>
```

2.2.4.4 ArrayOfSearchSettingDTO

The **ArrayOfSearchSettingDTO** complex type contains an array of elements of type **SearchSettingDTO**.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="ArrayOfSearchSettingDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="SearchSettingDTO"
      nillable="true" type="tns:SearchSettingDTO" />
  </xsd:sequence>
</xsd:complexType>
```

2.2.4.5 ArrayOfKeyValueOfstringstring

The **ArrayOfKeyValueOfstringstring** complex type contains an array of pairs of string values.

The following example specifies the structure of this complex type.

Defined in namespace http://schemas.microsoft.com/2003/10/Serialization/Arrays.

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

Key: First string value in a given pair of string values.

Value: Second string value in a given pair of string values.

2.2.4.6 ArrayOfKeyValuePairOfstringstring

The **KeyValuePairOfstringstring** complex type contains an array of elements of type **KeyValuePairOfstringstring**.

The following example specifies the structure of this complex type.

Defined in namespace http://schemas.datacontract.org/2004/07/System.Collections.Generic.

```xsd
<xsd:complexType name="ArrayOfKeyValuePairOfstringstring">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="KeyValuePairOfstringstring"
type="scg:KeyValuePairOfstringstring" />
  </xsd:sequence>
</xsd:complexType>
```

2.2.4.7 ArrayOfLinguisticsIdentifierDTO

The **ArrayOfLinguisticsIdentifierDTO** complex type contains an array of elements of type **LinguisticsIdentifierDTO**.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfLinguisticsIdentifierDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="LinguisticsIdentifierDTO"
nillable="true" type="tns:LinguisticsIdentifierDTO" />
  </xsd:sequence>
</xsd:complexType>
```

2.2.4.8 ArrayOfstring

The **ArrayOfstring** complex type contains an array of strings.

The following example specifies the structure of this complex type.

Defined in namespace http://schemas.microsoft.com/2003/10/Serialization/Arrays.

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

string: A string value.

2.2.4.9 BestBetDTO

The **BestBetDTO** complex type provides information about a best bet.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="BestBetDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:ManagedResultDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2.2.4.10 CommonDTOMembers

The **CommonDTOMembers** complex type contains information that is common to the types keyword, search setting**,** search setting context, and context expression. Whenever an operation is specified to accept or return elements of type **CommonDTOMembers**, an extending type MUST be used instead.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="CommonDTOMembers" mixed="true">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="Group" nillable="true" type="tns:SearchSettingGroupDTO"
/>
    <xsd:element minOccurs="0" name="Id" type="xsd:long" />
    <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
  </xsd:sequence>
  <xsd:attribute ref="ser:Id" />
  <xsd:attribute ref="ser:Ref" />
</xsd:complexType>
```

Name: The name of the element.

Description: The description of the element.

Group: The search setting group to which the element belongs.

Id: The unique identifier of the element that is assigned by the protocol server.

LastChanged: The date and time at which the element on the protocol server was last modified, in Coordinated Universal Time (UTC).

2.2.4.11   ContentCollectionDTO

The **ContentCollectionDTO** complex type provides information about a content collection.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ContentCollectionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="Cleared" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="Created" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="LastInput" nillable="true" type="xsd:dateTime" />
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="NumDocs" type="xsd:int" />
    <xsd:element minOccurs="0" name="Pipeline" nillable="true" type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>
```

Cleared: A string that contains the date and time of the last clearance, formatted as specified in [ISO-8601].

Created: A string that contains the date and time of the creation, formatted as specified in [ISO-8601].

Description: A description of the content collection.

LastInput: The date and time at which the content collection was last changed.

Name: The name of the content collection.

NumDocs: The number of items in the content collection.

Pipeline: An implementation-specific string constant. This value MUST be "Office14 (webcluster)".

2.2.4.12 ContextDTO

The **ContextDTO** complex type provides information about a search setting context.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ContextDTO" mixed="true" >
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContextExpressionRoot" nillable="true"
type="tns:ContextExpressionDTO" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ContextExpressionRoot: The root node of the context expression tree.

2.2.4.13 ContextExpressionDTO

The **ContextExpressionDTO** complex type provides information about a context expression node.

Two categories of context expression nodes exist: aggregate context expression nodes, which MUST have child nodes, and atomic context expression nodes, which MUST NOT have child nodes. The parent/child relationship between context expression nodes is represented through the **Parent** element.

The following example specifies the structure of this element.

```
<xsd:complexType name="ContextExpressionDTO" mixed="true ">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContextId" type="xsd:long" />
        <xsd:element minOccurs="0" name="ExpressionType" type="tns:ExpressionTypes" />
        <xsd:element minOccurs="0" name="Parent" nillable="true"
type="tns:ContextExpressionDTO" />
        <xsd:element minOccurs="0" name="Value" nillable="true" type="xsd:string" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ContextId: The identifier of the context expression node.

Parent: The parent node of the context expression node.

ExpressionType: The type of the context expression node. The expression type of an atomic context expression node MUST be **MATCH**. The expression type of an aggregate context expression node MUST be either **AND**, **OR**, or **NOT**.

Value: The value of the context expression node.

2.2.4.14 FeaturedContentDTO

The **FeaturedContentDTO** complex type provides information about featured content.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="FeaturedContentDTO" mixed="true" >
  <xsd:complexContent>
    <xsd:extension base="tns:ManagedResultDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2.2.4.15 KeyValuePairOfstringstring

The **KeyValuePairOfstringstring** complex type contains a pair of string values.

The following example specifies the structure of this complex type.

Defined in namespace http://schemas.datacontract.org/2004/07/System.Collections.Generic.

```xsd
<xsd:complexType name="KeyValuePairOfstringstring">
  <xsd:sequence>
    <xsd:element name="key" nillable="true" type="xsd:string" />
    <xsd:element name="value" nillable="true" type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>
```

key: The first string value in the pair.

value: The second string value in the pair.

2.2.4.16 KeywordDTO

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

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="KeywordDTO" mixed="true ">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="SearchSettings" nillable="true"
type="tns:ArrayOfSearchSettingDTO" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

SearchSettings: The array of the search settings associated with the keyword.

2.2.4.17 LinguisticsIdentifierDTO

The **LinguisticsIdentifierDTO** complex type contains information about a linguistic feature.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="LinguisticsIdentifierDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="Language" type="tns:Language" />
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>
```

Language: The language for the linguistic feature.

Name: The name of the linguistic feature.

2.2.4.18 ManagedResultDTO

The **ManagedResultDTO** complex type represents the properties that featured content and best bets share. When an operation is specified to accept or return a **ManagedResultDTO** complex type, one of the extending complex types **FeaturedContentDTO** or **BestBetDTO** MUST be used instead.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ManagedResultDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:SearchSettingDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="Position" nillable="true" type="xsd:short" />
        <xsd:element minOccurs="0" name="Teaser" nillable="true" type="xsd:string" />
        <xsd:element minOccurs="0" name="TeaserContentType" nillable="true" type="xsd:string"
/>
        <xsd:element minOccurs="0" name="Uri" nillable="true" type="xsd:anyURI" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Position: The position of the managed result. Protocol clients use this value to control position in display lists.

TeaserContentType: MIME content type of the teaser, as specified in [RFC2046]. This value can be **null**.

Teaser: Teaser text. This value can be **null**.

Uri: A URL of an external document.

2.2.4.19 PromotedItemDTO

The **PromotedItemDTO** complex type contains information that is common to promoted documents, promoted expressions, and promoted locations. When an operation is specified to accept or return an element of type **PromotedItemDTO**, one of its extensions

PromotedDocumentDTO, **PromotedExpressionDTO**, or **PromotedLocationDTO** MUST be used instead.

The following example specifies the structure for this complex type.

```
<xsd:complexType name="PromotedItemDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="PromotedItemSpec" nillable="true" type="xsd:string"
/>
        <xsd:element minOccurs="0" name="PromotedItemType" type="tns:KeywordItemType" />
        <xsd:element minOccurs="0" name="PromotionId" type="xsd:long" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

PromotedItemSpec: For extensions of type **PromotedDocumentDTO**, this is the document identifier. For extensions of type **PromotedLocationDTO**, this is the URI. For extensions of type **PromotedExpressionDTO**, this is the query.

PromotedItemType: An enumeration of promoted item types. The following table specifies the valid promoted item types.

Value	Meaning
PromotedDocument	Indicates that the **item** is a promoted document.
PromotedLocation	Indicates that the item is a promoted location.
PromotedExpression	Indicates that the item is a promoted expression.

PromotionId: The identifier of the promotion to which the promoted item belongs.

Description (inherited from CommonDTOMemebers): Not used.

Group (inherited from CommonDTOMemebers): Not used.

Name (inherited from CommonDTOMemebers): Not used.

2.2.4.20 PromotedDocumentDTO

The **PromotedDocumentDTO** complex type contains information about a promoted document.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="PromotedDocumentDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:PromotedItemDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2.2.4.21   PromotedExpressionDTO

The **PromotedExpressionDTO** complex type contains information about a promoted expression.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="PromotedExpressionDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:PromotedItemDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2.2.4.22   PromotedLocationDTO

The **PromotedLocationDTO** complex type contains information about a promoted location.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="PromotedLocationDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:PromotedItemDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

2.2.4.23   PromotionDTO

The **PromotionDTO** complex type contains information about a promotion.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="PromotionDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:SearchSettingDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="BoostValue" type="xsd:int" />
        <xsd:element minOccurs="0" name="PromotedItems" nillable="true"
type="tns:ArrayOfPromotedItemDTO" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

BoostValue: The boost value for this promotion.

PromotedItems: An array of the promoted items that belong to the promotion.

2.2.4.24   ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7

The **ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7** complex type contains an element of type **ArrayOfKeyValuePairOfstringstring**.

Defined in namespace http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7">
  <xsd:sequence>
    <xsd:element name="list" nillable="true" type="scg:ArrayOfKeyValuePairOfstringstring" />
  </xsd:sequence>
</xsd:complexType>
```

list: An **ArrayOfKeyValuePairOfstringstring** complex type.

2.2.4.25 SearchSettingDTO

The **SearchSettingDTO** complex type contains information that is common to best bets, featured content, synonyms, and promotions. When an operation is specified to accept or return an element of this type, one of the extending types **BestBetDTO**, **FeaturedContentDTO**, **SynonymDTO**, or **PromotionDTO** MUST be used instead.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="SearchSettingDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="Contexts" nillable="true"
type="tns:ArrayOfContextDTO" />
        <xsd:element minOccurs="0" name="ValidFrom" nillable="true" type="xsd:dateTime" />
        <xsd:element minOccurs="0" name="ValidTo" nillable="true" type="xsd:dateTime" />
        <xsd:element minOccurs="0" name="keyword" nillable="true" type="tns:KeywordDTO" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Contexts: The contexts with which the search setting is associated.

ValidFrom: The date and time from which the search setting is valid. This MUST be **null** if the search setting is valid immediately.

ValidTo: The date and time to which a search setting is valid. This MUST be **null** if the search setting is expected to be valid indefinitely.

keyword: The identifier of the keyword to which the search setting belongs.

2.2.4.26 SearchSettingGroupDTO

The **SearchSettingGroupDTO** complex type contains information about a search setting group.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="SearchSettingGroupDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="Id" type="xsd:long" />
```

```
    <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
    <xsd:element minOccurs="0" name="Name" nillable="true"
      type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>
```

Description: The description of the search setting group.

Id: The unique identifier of the search setting group, as assigned by the protocol server.

LastChanged: The date and time at which the search setting group was last modified.

Name: The name of the search setting group.

2.2.4.27   SynonymDTO

The **SynonymDTO** complex type contains information about a synonym.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="SynonymDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:SearchSettingDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContextId" nillable="true" type="xsd:long" />
        <xsd:element minOccurs="0" name="ExpansionType" type="tns:SynonymExpansionType" />
        <xsd:element minOccurs="0" name="Term" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

ContextId: The identifier of the search setting context that is associated with the synonym.

Term: The synonym term.

ExpansionType: The expansion type of the synonym.

2.2.4.28   ManagedPropertyDTO

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

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ManagedPropertyDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="DecimalPlaces" type="xsd:int"/>
    <xsd:element minOccurs="0" name="DeleteDisallowed" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="Id" type="xsd:long"/>
    <xsd:element minOccurs="0" name="IsMapped" type="xsd:boolean" />
        <xsd:element minOccurs="0" name="MappingDisallowed" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="MaxIndexSize" type="xsd:int"/>
    <xsd:element minOccurs="0" name="MaxResultSize" type="xsd:int"/>
    <xsd:element minOccurs="0" name="MergeCrawledProperties" type="xsd:boolean"/>
```

```
      <xsd:element minOccurs="0" name="Name" type="xsd:string"/>
      <xsd:element minOccurs="0" name="Queryable" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="RefinementEnabled" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="ResultFallBackRef" type="xsd:long"/>
      <xsd:element minOccurs="0" name="SortableType" type="xsd:int"/>
      <xsd:element minOccurs="0" name="StemmingEnabled" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="SubstringEnabled" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="SummaryTypeValue" type="xsd:int"/>
      <xsd:element minOccurs="0" name="Type" type="xsd:int"/>
   </xsd:sequence>
 </xsd:complexType>
```

DecimalPlaces: Specifies the number of decimals that are persisted. The valid value range is -28 to 28.

DeleteDisallowed: The value is **true** if the managed property cannot be deleted; otherwise, the value is **false**.

Description: A description of the managed property. This value is optional and is empty by default.

Id: The identifier of the managed property.

IsMapped: The value is **true** if any crawled properties are mapped to this managed property; otherwise, the value is **false**.

MappingDisallowed: The value is **true** if mapping is not valid; otherwise, the value is **false**.

MaxIndexSize: Specifies the maximum number of kilobytes that are indexed for a managed property. This value applies on to the **Text** and **Scope** properties.

MaxResultSize: Specifies the maximum result size.

MergeCrawledProperties: Determines whether the value of the managed property is selected from a single crawled property in the crawled property mapping, or if all values are merged.

Name: The name of the managed property.

Queryable: With this attribute enabled, the managed property can be included in the query operators and filter terms.

RefinementEnabled: The value is **true** if refinement is enabled; otherwise, the value is **false**.

ResultFallBackRef: A reference to the result fallback.

SortableType: Specifies how the managed property is sorted. For more details, see the following table.

Value	Member	Description
0	**SortableDisabled**	A managed property that cannot be used for sorting through the query API.
1	**SortableEnabled**	A managed property that is defined as sortable and can be used for sorting through the query API.
2	**LatentSortable**	A managed property that is prepared for sorting but needs to be changed to **SortableEnabled** to be used for sorting through the query API. In contrast to switching from **SortableDisabled** to **SortableEnabled**, this

Value	Member	Description
		does not require reprocessing of the content.

StemmingEnabled: The value is **true** if stemming is enabled; otherwise, the value is **false**.

SubstringEnabled: The value is **true** if the substring is enabled for the managed property; otherwise, the value is **false**.

SummaryTypeValue: Specifies whether this managed property produces a summary. For details, see the following table.

Value	Member	Description
0	**Disabled**	The summary is disabled for this managed property.
1	**Static**	The summary is statically generated.
2	**Dynamic**	The summary is dynamically generated.

Type: Enumeration of the types of managed properties. For details, see the following table.

Value	Member	Description
1	**Text**	A field of type **Text**/**String**.
2	**Integer**	A field of type **Signed Integer**.
3	**Boolean**	A field of type **Boolean**.
4	**Float**	A field of type **Float**.
5	**Decimal**	A field of type **Decimal**.
6	**DateTime**	A field of type **DateTime**.

2.2.4.29   RefinerConfigurationDTO

The following example specifies the structure of the **RefinerConfigurationDTO** complex type.

```
<xsd:complexType name="RefinerConfigurationDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="Algorithm" nillable="true" type="xsd:int"/>
    <xsd:element minOccurs="0" name="Anchoring" nillable="true" type="xsd:int"/>
    <xsd:element minOccurs="0" name="CutoffMaxBucket" nillable="true" type="xsd:int"/>
    <xsd:element minOccurs="0" name="DefaultValue" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="Divisor" nillable="true" type="xsd:float"/>
    <xsd:element minOccurs="0" name="ID" nillable="true" type="xsd:long"/>
    <xsd:element minOccurs="0" name="Intervals" nillable="true" type="xsd:int"/>
    <xsd:element minOccurs="0" name="RefinementType" type="xsd:int"/>
    <xsd:element minOccurs="0" name="Resolution" nillable="true" type="xsd:int"/>
  </xsd:sequence>
</xsd:complexType>
```

Algorithm: Specifies which algorithm to use for discretization. The default value is "EqualFrequency". For details, see the following table.

Member	Description	Value
EqualFrequency	The buckets can have value ranges of various widths. This algorithm ensures that approximately the same number of observations falls into each bucket. This is the default algorithm.	0
EqualWidth	The buckets have value ranges that are equal. Because width is static, this algorithm can produce unevenly populated buckets.	1
RangeDivision	The buckets have value ranges that are considered to be equal. Width is calculated by dividing the range of observed values into a specified number of buckets. This algorithm might produce unevenly populated buckets, or even empty buckets.	2

Anchoring: Anchoring options. These options apply only to string and scope refiners. The default value is "Complete". For details, see the following table.

Member	Description	Value
Auto	Match for refiners set to "Auto".	0
None	Match for refiners set to "None".	1
Complete	Complete match for refiners.	2
Prefix	Prefix match for refiners.	3
Suffix	Suffix match for refiners.	4

CutoffMaxBucket: Specifies a limit for the number of unique values (buckets) that are returned for a refiner within a search partition.

DefaultValue: Specifies a value (numeric or string) that is used internally to represent an empty value for the field.

Divisor: Applicable only to numeric refiners.

ID: The identifier of this refiner.

Intervals: Applicable only to numeric refiners.

RefinementType: Specifies the refinement type for this refiner configuration. For details, see the following table.

Member	Description	Value
DeepRefinementDisabled	Refiner result data is created based on the top matching documents.	0
DeepRefinementEnabled	Indicates the use of index-side (deep) refiners. In this case, the statistical analysis and creation of dynamic buckets is performed within the core search engine by means of an optimized vector-indexing algorithm. This also enables refinement on the entire result set in an optimal way.	1
LatentRefinement	Prepares the index (on disk) for refiners but does not activate the feature in memory. This means that refiners cannot be used in queries. However, at a later stage, **LatentRefinement** can be	2

Member	Description	Value
	changed to **DeepRefinementEnabled**. This member can be used to prepare for later use of refiners for this field without the cost of the additional memory usage when setting **DeepRefinementEnabled**.	

Resolution: Valid only for numeric refiners.

2.2.4.30 CategoryDTO

The following example specifies the structure of the **CategoryDTO** complex type.

```
<xsd:complexType name="CategoryDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="CrawledPropertyCount" type="xsd:int"/>
    <xsd:element minOccurs="0" name="DiscoverNewProperties" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="ID" type="xsd:long"/>
    <xsd:element minOccurs="0" name="MapToContents" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>
```

CrawledPropertyCount: The total number of crawl properties for this crawled property category.

DiscoverNewProperties: Set to discover new properties when documents or items are processed.

ID: The identifier of the crawled property category.

MapToContents: Map to contents (converted to string).

Name: The name of the crawled property category.

2.2.4.31 FullTextIndexDTO

The following example specifies the structure of the **FullTextIndexDTO** complex type.

```
<xsd:complexType name="FullTextIndexDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="DeleteDisallowed" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="Id" type="xsd:long"/>
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="StemmingEnabled" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="isDefault" type="xsd:boolean"/>
  </xsd:sequence>
</xsd:complexType>
```

DeleteDisallowed: A Boolean value that indicates whether this full-text index field can be deleted. The value is **true** if deletion is not allowed; otherwise, the value is **false**.

Description: A description of the full-text index field.

Id: The identifier of the full-text index field.

Name: The name of the full-text index field.

StemmingEnabled: A Boolean value that indicates if stemming is enabled for this full-text index field. The value is **true** if stemming is enabled; otherwise, the value is **false**.

isDefault: The value is **true** if this full-text index field is the default full-text index field; otherwise, the value is **false**.

2.2.4.32   CrawledPropertyDTO

The following example specifies the structure of the **CrawledPropertyDTO** complex type.

```
<xsd:complexType name="CrawledPropertyDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="CategoryName" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="Id" type="xsd:long"/>
    <xsd:element minOccurs="0" name="IsMappedToContents" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="IsMultiValued" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="IsNameEnum" type="xsd:boolean"/>
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="Propset" type="ser:guid"/>
    <xsd:element minOccurs="0" name="VariantType" type="xsd:int"/>
  </xsd:sequence>
</xsd:complexType>
```

CategoryName: The name of the crawled property category that the crawled property is associated with.

Id: The identifier of the crawled property.

IsMappedToContents: Indicates whether the crawled property will be mapped to the crawledpropertycontent managed property. This is used to increase search **recall**, and the crawled property does not need to be explicitly mapped to the crawledpropertycontent managed property.

IsMultiValued: A Boolean value that specifies whether the crawled property is multi-valued.

IsNameEnum: A Boolean value that specifies whether the crawled property name is enumerable.

Name: The name of the crawled property.

Propset: A GUID which identifies the crawled property category the crawled property is associated with. This value can be used with the **GetCategory** operation to look up the category of the crawled property. A crawled property MUST be associated with a crawled property category.

VariantType: Gets the variant data type for a crawled property. Valid values for this element are the values specified for the **VARTYPE** field of the **PROPVARIANT** structure, as specified in [PROPVARIANT]. These are described in the following table.

Value	Name
0	VT_EMPTY
1	VT_NULL
2	VT_I2
3	VT_I4
4	VT_R4

Value	Name
5	VT_R8
6	VT_CY
7	VT_DATE
8	VT_BSTR
9	VT_DISPATCH
10	VT_ERROR
11	VT_BOOL
12	VT_VARIANT
13	VT_UNKNOWN
14	VT_DECIMAL
16	VT_I1
17	VT_UI1
18	VT_UI2
19	VT_UI4
20	VT_I8
21	VT_UI8
22	VT_INT
23	VT_UINT
30	VT_LPSTR
31	VT_LPWSTR
34	VT_FILETIME

2.2.4.33   RankProfileDTO

The following example specifies the structure of the **RankProfileDTO** complex type.

```
<xsd:complexType name="RankProfileDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="AuthorityWeight" type="xsd:int"/>
    <xsd:element minOccurs="0" name="FreshnessManagedPropertyName" nillable="true"
type="xsd:string"/>
    <xsd:element minOccurs="0" name="FreshnessResolution" type="xsd:int"/>
    <xsd:element minOccurs="0" name="FreshnessWeight" type="xsd:int"/>
    <xsd:element minOccurs="0" name="ID" type="xsd:long"/>
    <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="PositionStopWordThreshold" type="xsd:long"/>
    <xsd:element minOccurs="0" name="QualityWeight" type="xsd:int"/>
    <xsd:element minOccurs="0" name="QueryAuthorityWeight" type="xsd:int"/>
```

```
      <xsd:element minOccurs="0" name="RankModelName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="StopWordThreshold" type="xsd:long"/>
      <xsd:element minOccurs="0" name="isDefault" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
```

AuthorityWeight: A value that indicates the importance of a document as determined by the links from other documents to the document in question.

FreshnessManagedPropertyName: The managed property that references the freshness ranking.

FreshnessResolution: Freshness resolution. Possible values are described in the following table.

Value	Meaning
0	Specifies seconds-based freshness.
1	Specifies minute-based freshness.
2	Specifies hour-based freshness.
3	Specifies day-based freshness.
4	Specifies year-based freshness.

FreshnessWeight: A value that indicates the age of a document compared to the time when the query is issued.

ID: The identifier of the rank profile.

Name: The name of the rank profile.

PositionStopWordThreshold: The maximum number of occurrences of a search term in a result set that contributes to the **proximity boost** component of the rank score.

QualityWeight: The assigned importance of a document. Because quality metrics are assigned to individual documents or groups of documents directly, the quality of a document is query independent.

QueryAuthorityWeight: The query authority weight for this rank profile.

RankModelName: The name of the rank model that this rank profile extends.

StopWordThreshold: The maximum number of occurrences of a search term in a result set that contributes to the rank score. If the term appears more often than the threshold specifies, additional occurrences are ignored. A low value gives better search performance but less relevance in the result set. A high value decreases search performance but improves the relevance of the result set.

isDefault: The value is **true** if this is a default rank profile; otherwise, the value is **false**.

2.2.4.34   QualityComponentDTO

The following example specifies the structure of the **QualityComponentDTO** complex type.

```
  <xsd:complexType name="QualityComponentDTO">
    <xsd:sequence>
```

```
      <xsd:element minOccurs="0" name="ManagedPropertyName" type="xsd:string"/>
      <xsd:element minOccurs="0" name="Weight" type="xsd:int"/>
   </xsd:sequence>
  </xsd:complexType>
```

ManagedPropertyName: The name of the managed property.

Weight: The quality weight of the managed property reference.

2.2.4.35   FullTextIndexRankComponentDTO

The **FullTextIndexRankComponentDTO** complex type represents the configuration of relevance boost and proximity boost weight parameters associated with matches in a particular full-text index field for a rank profile.

All weights are specified as percentages. For example, a weight of 200 means that the rank component MUST be multiplied by 2 when used.

The following example specifies the structure of this complex type.

```
  <xsd:complexType name="FullTextIndexRankComponentDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContextWeight" type="xsd:int"/>
      <xsd:element minOccurs="0" name="FullTextIndexReference" type="xsd:string"/>
      <xsd:element minOccurs="0" name="ProximityWeight" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
```

ContextWeight: The relevance weight for a match in the referenced full-text index field.

FullTextIndexReference: Full-text index field reference.

ProximityWeight: The weight of proximity boosts in the referenced full-text index field.

2.2.4.36   ManagedPropertyBoostComponentDTO

The following example specifies the structure of the **ManagedPropertyBoostComponentDTO** complex type.

```
  <xsd:complexType name="ManagedPropertyBoostComponentDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" name="BoostValue" type="xsd:string"/>
      <xsd:element minOccurs="0" name="ManagedPropertyName" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
```

BoostValue: The boost value of the managed property.

ManagedPropertyName: The name of the managed property to boost.

2.2.4.37   FullTextIndexMappingDTO

The following example specifies the structure of the **FullTextIndexMappingDTO** complex type.

```
<xsd:complexType name="FullTextIndexMappingDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="FullTextIndexName" type="xsd:string"/>
    <xsd:element minOccurs="0" name="ImportanceLevel" type="xsd:int"/>
    <xsd:element minOccurs="0" name="ManagedPropertyName" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>
```

FullTextIndexName: The name of the full-text index field.

ImportanceLevel: The importance of the referenced managed property within a full-text index field.

ManagedPropertyName: The name of the managed property.

2.2.4.38   ArrayOfCrawledPropertyDTO

The **ArrayOfCrawledPropertyDTO** complex type contains an array of elements of type **CrawledPropertyDTO**.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfCrawledPropertyDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="CrawledPropertyDTO"
nillable="true" type="tns:CrawledPropertyDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

CrawledPropertyDTO: Contains information about a crawled property.

2.2.4.39   ArrayOfManagedPropertyDTO

The **ArrayOfManagedPropertyDTO** complex type contains an array of elements of type **ManagedPropertyDTO**.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfManagedPropertyDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="ManagedPropertyDTO"
nillable="true" type="tns:ManagedPropertyDTO "/>
  </xsd:sequence>
</xsd:complexType>
```

ManagedPropertyDTO: Contains information about a managed property.

2.2.4.40   ArrayOfguid

The **ArrayOfguid** complex type contains an array with zero, one, or more GUIDs.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfguid">
```

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

guid: A GUID.

2.2.4.41   ArrayOfCategoryDTO

The **ArrayOfCategoryDTO** complex type contains zero, one, or more **CategoryDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfCategoryDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="CategoryDTO" nillable="true"
type="tns:CategoryDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

CategoryDTO: Contains information about a crawled property category.

2.2.4.42   ArrayOffullTextIndexDTO

The **ArrayOfFullTextIndexDTO** complex type contains zero, one, or more **FullTextIndexDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfFullTextIndexDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="FullTextIndexDTO" nillable="true"
type="tns:FullTextIndexDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

FullTextIndexDTO: The elements of a full-text index field.

2.2.4.43   ArrayOfRankProfileDTO

The **ArrayOfRankProfileDTO** complex type contains zero, one, or more **RankProfileDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfRankProfileDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="RankProfileDTO" nillable="true"
type="tns:RankProfileDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

RankProfileDTO: Contains information about a rank profile.

2.2.4.44 ArrayOfFullTextIndexMappingDTO

The **ArrayOfFullTextIndexMappingDTO** complex type contains zero, one or more **FullTextIndexMappingDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfFullTextIndexMappingDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="FullTextIndexMappingDTO"
nillable="true" type="tns:FullTextIndexMappingDTO"/>
  </xsd:sequence></xsd:complexType>
```

FullTextIndexMappingDTO: Contains information about a mapping from a managed property to a full-text index field.

2.2.4.45 ArrayOfFullTextIndexRankComponentDTO

The **ArrayOfFullTextIndexRankComponentDTO** complex type contains zero, one, or more **FullTextIndexRankComponentDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfFullTextIndexRankComponentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="FullTextIndexRankComponentDTO"
nillable="true" type="tns:FullTextIndexRankComponentDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

FullTextIndexRankComponentDTO: Contains information about ranking configuration for a full-text index field.

2.2.4.46 ArrayOfManagedPropertyBoostComponentDTO

The **ArrayOfManagedPropertyBoostComponentDTO** complex type contains zero, one, or more **ManagedPropertyBoostComponentDTO** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfManagedPropertyBoostComponentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="ManagedPropertyBoostComponentDTO"
nillable="true" type="tns:ManagedPropertyBoostComponentDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

ManagedPropertyBoostComponentDTO: Contains information about a managed property keyword rank component.

2.2.4.47 ArrayOfQualityComponentDTO

The **ArrayOfQualityComponentDTO** complex type contains zero, one, or more **QualityComponentDTO** elements.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="ArrayOfQualityComponentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="QualityComponentDTO"
nillable="true" type="tns:QualityComponentDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

QualityComponentDTO: Contains information about a quality rank component.

2.2.5 Simple Types

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

Simple type	Description
ExpressionTypes	The type of a context expression node.
KeywordItemType	The type of a keyword-related object.
Language	A language.
LinguisticTermType	The type of a linguistic term.
LinguisticType	The type of a linguistic feature.
SortDirection	The direction in which to sort.
SortField	The field to sort by.
SynonymExpansionType	The expansion type of a synonym.
guid	The format of a GUID.

2.2.5.1 ExpressionTypes

The **ExpressionTypes** simple type specifies the type of a context expression node.

The following example specifies the structure of this simple type.

```xsd
<xsd:simpleType name="ExpressionTypes">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="AND" />
    <xsd:enumeration value="NOT" />
    <xsd:enumeration value="OR" />
    <xsd:enumeration value="MATCH" />
  </xsd:restriction>
  <xsd:annotation>
    <xsd:appinfo>
      <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
        xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
    </xsd:appinfo>
  </xsd:annotation>
```

```
          </xsd:simpleType>
```

The following table specifies the valid values for **ExpressionTypes**.

Value	Meaning
AND	The context expression node is an "AND" node. All child nodes MUST evaluate to for the node to evaluate to **true**.
NOT	The context expression node is a **NOT** node. The child node MUST evaluate to **false** for the node to evaluate to **true**. The node MUST have only one subnode.
OR	The context expression node is an **OR** node. At least one of the subnodes MUST evaluate to **true** for the node to evaluate to **true**.
MATCH	The context expression node is a **MATCH** node. The name-value pair that the node specifies MUST be found in the query context for the node to evaluate to **true**.

2.2.5.2 KeywordItemType

The **KeywordItemType** simple type specifies the type of an item.

The following example specifies the structure of this simple type.

```
<xsd:simpleType name="KeywordItemType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Synonym">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="Promotion">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="BestBet">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="FeaturedContent">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
```

```
      </xsd:enumeration>
      <xsd:enumeration value="SearchSettingGroup">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="Keyword">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="Context">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="PromotedDocument">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="PromotedLocation">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="PromotedExpression">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="SearchSetting">
        <xsd:annotation>
          <xsd:appinfo>
            <EnumerationValue
              xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
          </xsd:appinfo>
        </xsd:annotation>
      </xsd:enumeration>
    </xsd:restriction>
    <xsd:annotation>
```

```
      <xsd:appinfo>
        <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
          xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
      </xsd:appinfo>
    </xsd:annotation>
  </xsd:simpleType>
```

The following table specifies the valid values for **KeywordItemType**.

Value	Meaning
Synonym	The item is a synonym.
Promotion	The item is a promotion.
BestBet	The item is a best bet.
FeaturedContent	The item is featured content.
SearchSettingGroup	The item is a search setting group.
Keyword	The item is a keyword.
Context	The item is a search setting context.
PromotedDocument	The item is a promoted document.
PromotedLocation	The item is a promoted location.
PromotedExpression	The item is a promoted expression.

2.2.5.3   Language

The **Language** simple type specifies a language.

The following example specifies the structure of this simple type.

```
  <xsd:simpleType name="Language">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="ANY" />
      <xsd:enumeration value="AR" />
      <xsd:enumeration value="CS" />
      <xsd:enumeration value="DA" />
      <xsd:enumeration value="DE" />
      <xsd:enumeration value="EL" />
      <xsd:enumeration value="EN" />
      <xsd:enumeration value="ES" />
      <xsd:enumeration value="ET" />
      <xsd:enumeration value="FI" />
      <xsd:enumeration value="FR" />
      <xsd:enumeration value="HE" />
      <xsd:enumeration value="HI" />
      <xsd:enumeration value="HU" />
      <xsd:enumeration value="ID" />
      <xsd:enumeration value="IS" />
      <xsd:enumeration value="IT" />
      <xsd:enumeration value="JA" />
```

```
        <xsd:enumeration value="KO" />
        <xsd:enumeration value="LT" />
        <xsd:enumeration value="LV" />
        <xsd:enumeration value="MS" />
        <xsd:enumeration value="NB" />
        <xsd:enumeration value="NL" />
        <xsd:enumeration value="NN" />
        <xsd:enumeration value="NO" />
        <xsd:enumeration value="PL" />
        <xsd:enumeration value="PT" />
        <xsd:enumeration value="RO" />
        <xsd:enumeration value="RU" />
        <xsd:enumeration value="SC" />
        <xsd:enumeration value="SK" />
        <xsd:enumeration value="SL" />
        <xsd:enumeration value="SR" />
        <xsd:enumeration value="SV" />
        <xsd:enumeration value="TR" />
        <xsd:enumeration value="UK" />
        <xsd:enumeration value="UR" />
    </xsd:restriction>
  </xsd:simpleType>
```

The following table specifies the valid values for **Language**.

Value	Meaning
ANY	Any language.
AR	Arabic
CS	Czech
DA	Danish
DE	German
EL	Greek
EN	English
ES	Spanish
ET	Estonian
FI	Finnish
FR	French
HE	Hebrew
HI	Hindi
HU	Hungarian
ID	Indonesian
IS	Icelandic

Value	Meaning
IT	Italian
JA	Japanese
KO	Korean
LT	Lithuanian
LV	Latvian
MS	Malay
NB	Bokmål, Norwegian
NL	Dutch
NN	Nynorsk, Norwegian
NO	Norwegian
PL	Polish
PT	Portuguese
RO	Romanian; Moldavian
RU	Russian
SC	Sardinian
SK	Slovak
SL	Slovenian
SR	Serbian
SV	Swedish
TR	Turkish
UK	Ukrainian
UR	Urdu

2.2.5.4 LinguisticTermType

The **LinguisticTermType** simple type specifies the type of a term.

The following example specifies the structure of this simple type.

```
<xsd:simpleType name="LinguisticTermType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="INCLUSION" />
    <xsd:enumeration value="EXCLUSION" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **LinguisticTermType**.

Value	Meaning
EXCLUSION	The term MUST be excluded from linguistic processing.
INCLUSION	The term MUST be included in linguistic processing.

2.2.5.5   LinguisticType

The **LinguisticType** simple type specifies the type of a linguistic feature.

The following example specifies the structure of this simple type.

```
<xsd:simpleType name="LinguisticType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="SPELLCHECKING" />
    <xsd:enumeration value="ENTITYEXTRACTION" />
    <xsd:enumeration value="UNKNOWN" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **LinguisticType**.

Value	Meaning
SPELLCHECKING	The linguistic feature is a spell-checker.
ENTITYEXTRACTION	The linguistic feature is a property extractor.
UNKNOWN	The linguistic feature is an unknown type.

2.2.5.6   SortDirection

The **SortDirection** simple type specifies the direction in which a result is sorted.

The following example specifies the structure of this element.

```
<xsd:simpleType name="SortDirection">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Ascending" />
    <xsd:enumeration value="Descending" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **SortDirection**.

Value	Meaning
Ascending	Sort the result in ascending order.
Descending	Sort the result in descending order.

2.2.5.7 SortField

The **SortField** simple type specifies the criteria by which a result is sorted.

The following example specifies the structure of this simple type.

```xsd
<xsd:simpleType name="SortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **SortField**.

Value	Meaning
Name	Sort the result by name.
LastChanged	Sort the result by the time at which the result elements were last changed.

2.2.5.8 SynonymExpansionType

The **SynonymExpansionType** simple type specifies the expansion type of a synonym.

The following example specifies the structure of this simple type.

```xsd
<xsd:simpleType name="SynonymExpansionType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="OneWay" />
    <xsd:enumeration value="TwoWay" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **SynonymExpansionType**.

Value	Meaning
OneWay	The synonym is a **one-way synonym**.
TwoWay	The synonym is a **two-way synonym**.

2.2.5.9 guid

The **guid** simple type specifies the format ofGUIDs.

The following example specifies the structure of this simple type.

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

```
    </xsd:simpleType>
```

A GUID is a string of five hexadecimal numbers that contain 8, 4, 4, 4, and 12 digits, in this order. The numbers are separated by hyphens.

2.2.6 Attributes

The following table summarizes the set of common XML Schema attribute definitions that this specification defines. XML Schema attributes that are specific to a particular operation are described with the operation.

Attribute	Description
Id	The identifier of the current element.
Ref	A reference to another element.

2.2.6.1 Id

The **Id** attribute specifies the identifier of an element, as specified in [XMLSCHEMA2]. This attribute enables elements of the **CommonDTOMembers** type to be referenced by another element in the same SOAP message, instead of being embedded in that element as a sub-element.

The following example specifies the structure of this attribute.

```
    <xsd:attribute name="Id" type="xsd:ID" />
```

2.2.6.2 Ref

The **Ref** attribute specifies a reference to another element, as specified in [XMLSCHEMA2]. This attribute enables an element of the **CommonDTOMembers** type to reference other elements in the same SOAP message, instead of embedding those elements as sub-elements.

The following example specifies the structure of this attribute.

```
    <xsd:attribute name="Ref" type="xsd:IDREF" />
```

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.

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 protocol 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 made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

3.1 SpellCheckerService Server Details

This service provides operations for retrieval and removal of the spell-checking terms.

3.1.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The SpellCheckerService is stateless.

For each spell-check identifier, as maintained by the LinguisticManagerService, the SpellCheckerService MUST delegate the storage of a persisted dictionary of spell-check exclusions to the PersistedDictionaryService. The persisted dictionary name MUST be equal to the name of the spell-check identifier.

As the protocol server internally uses the **PersistedDictionaryService**, protocol clients can also use the **PersistedDictionaryService** to retrieve updated spell-check exclusions to distribute and activate these.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The following table specifies the operations that are associated with message processing events.

Operation	Description
AddTerm	Adds a term to a spell-checker.
Clean	Deletes all terms from a spell-checker.

Operation	Description
CleanTerms	Deletes all terms from a spell-checker satisfying the specified criteria.
Contains	Checks whether a spell-checker exists.
ContainsTerm	Checks whether a spell-checker contains a term.
Get	Retrieves spell-checkers satisfying the specified criteria.
GetAll	Retrieves all spell-checkers.
GetAllTerms	Retrieves all terms for a spell-checkers.
GetTerms	Retrieves terms for a spell-checker satisfying the specified criteria.
RemoveTerm	Deletes a term for a spell-checker.

3.1.4.1   AddTerm

The **AddTerm** operation adds a term to a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
Term" message="tns:SpellCheckerService_AddTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermResponse" message="tns:SpellCheckerService_AddTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_AddTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_AddTerm_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **SpellCheckerService_AddTerm_OutputMessage** response message.

3.1.4.1.1   Elements

None.

3.1.4.1.2   Complex Types

None.

3.1.4.1.3   Simple Types

None.

3.1.4.1.4   Attributes

None.

3.1.4.1.5 Groups

None.

3.1.4.1.6 Attribute Groups

None.

3.1.4.2 Clean

The **Clean** operation deletes all terms for a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Clean">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
an" message="tns:SpellCheckerService_Clean_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anResponse" message="tns:SpellCheckerService_Clean_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anAdminExceptionWCFFault" name="AdminExceptionWCFFault"
  message="tns:SpellCheckerService_Clean_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_Clean_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **SpellCheckerService_Clean_OutputMessage** response message.

3.1.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.2.1.1 SpellCheckerService_Clean_InputMessage

The **SpellCheckerService_Clean_InputMessage** request message initiates the removal of all terms for a spell-checker.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Clean
```

The SOAP body MUST contain a **Clean** element.

3.1.4.2.1.2 SpellCheckerService_Clean_OutputMessage

The **SpellCheckerService_Clean_OutputMessage** response message is sent in reply to the **SpellCheckerService_Clean_InputMessage** request message. The **SpellCheckerService_Clean_InputMessage** request message initiates the operation to delete all terms.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanResponse
```

The SOAP body MUST contain a **CleanResponse** element.

3.1.4.2.1.3   SpellCheckerService_Clean_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_Clean_AdminExceptionWCFFault_FaultMessage** fault message is
sent in reply to the request that is initiated by the **SpellCheckerService_Clean_InputMessage**
message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of this response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanAdminExcept
ionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.2.2   Elements

None.

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   CleanTerms

The **CleanTerms** operation deletes all terms of a specific type from a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="CleanTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTerms" message="tns:SpellCheckerService_CleanTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsResponse" message="tns:SpellCheckerService_CleanTerms_OutputMessage" />
```

```
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_CleanTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_CleanTerms_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_CleanTerms_OutputMessage** response message.

3.1.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.3.1.1 SpellCheckerService_CleanTerms_InputMessage

The **SpellCheckerServer_CleanTerms_InputMessage** request message initiates the removal of all terms of a specific type for a spell-checker.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTerms
```

The SOAP body MUST contain a **CleanTerms** element.

3.1.4.3.1.2 SpellCheckerService_CleanTerms_OutputMessage

The **SpellCheckerService_CleanTerms_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_CleanTerms_InputMessage** message. The **SpellCheckerService_CleanTerms_InputMessage** request message initiates the request to delete all terms of a specific type.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTermsRespon
se
```

The SOAP body MUST contain a **CleanTermsResponse** element.

3.1.4.3.1.3 SpellCheckerService_CleanTerms_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_CleanTerms_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_CleanTerms_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTermsAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.3.2 Elements

None.

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 Contains

The **Contains** operation checks for the existence of a given spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Contains">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tains" message="tns:SpellCheckerService_Contains_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsResponse" message="tns:SpellCheckerService_Contains_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_Contains_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_Contains_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **SpellCheckerService_Contains_OutputMessage** response message.

3.1.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.4.1.1   SpellCheckerService_Contains_InputMessage

The **SpellCheckerService_Contains_InputMessage** request message initiates the operation to check for the existence of a given spell-checker.

The SOAP action value of the request message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Contains
```

The SOAP body MUST contain a **Contains** element.

3.1.4.4.1.2   SpellCheckerService_Contains_OutputMessage

The **SpellCheckerService_Contains_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_Contains_InputMessage** message. The **SpellChekerService_Contains_InputMessage** message initiates the request to check for the existence of a given spell-checker.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsResponse
```

The SOAP body MUST contain a **ContainsResponse** element.

3.1.4.4.1.3   SpellCheckerService_Contains_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_Contains_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_Contains_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsAdminExc
eptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.4.2   Elements

None.

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   ContainsTerm

The **ContainsTerm** operation checks whether a spell-checker contains a specific term.

The following example specifies the structure of this element.

```
<wsdl:operation name="ContainsTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTerm" message="tns:SpellCheckerService_ContainsTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermResponse" message="tns:SpellCheckerService_ContainsTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_ContainsTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_ContainsTerm_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_ContainsTerm_OutputMessage** response message.

3.1.4.5.1   Messages

The following WSDL message definitions are specific to this operation.

3.1.4.5.1.1   SpellCheckerService_ContainsTerm_InputMessage

The **SpellCheckerService_ContainsTerm_InputMessage** request message initiates the operation to check whether a specific term exists for a spell-checker.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTerm
```

The SOAP body MUST contain a **ContainsTerm** element.

3.1.4.5.1.2   SpellCheckerService_ContainsTerm_OutputMessage

The **SpellCheckerService_ContainsTerm_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_ContainsTerm_InputMessage**

message. The **SpellCheckerService_ContainsTerm_InputMessage** checks for the existence of a term.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTermResp
onse
```

The SOAP body MUST contain a **ContainsTermResponse** element.

3.1.4.5.1.3 SpellCheckerService_ContainsTerm_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_ContainsTerm_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_ContainsTerm_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTermAdmi
nExceptionWCFFault
```

The SOAP body MUST contain a **AdminExceptionWCF** element.

3.1.4.5.2 Elements

None.

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 Get

The **Get** operation is used to retrieve spell-checkers.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Get">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
" message="tns:SpellCheckerService_Get_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Response" message="tns:SpellCheckerService_Get_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_Get_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_Get_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_Get_OutputMessage** response message.

3.1.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.6.1.1 SpellCheckerService_Get_InputMessage

The **SpellCheckerService_Get_InputMessage** request message initiates the retrieval of the spell-checkers.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
```

The SOAP body MUST contain a **Get** element.

3.1.4.6.1.2 SpellCheckerService_Get_OutputMessage

The **SpellCheckerService_Get_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_Get_InputMessage** message. The **SpellCheckerService_Get_InputMessage** request message initiates the operation to retrieve the spell-checkers.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetResponse
```

The SOAP body MUST contain a **GetResponse** element.

3.1.4.6.1.3 SpellCheckerService_Get_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_Get_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_Get_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAdminExceptio
nWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.6.2 Elements

None.

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 GetAll

The **GetAll** operation is used to retrieve all the spell-checkers.

The following example specifies the structure of this element.

```
<wsdl:operation name="GetAll">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
All" message="tns:SpellCheckerService_GetAll_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllResponse" message="tns:SpellCheckerService_GetAll_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_GetAll_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_GetAll_InputMessage** request message.
On successful completion, the protocol server MUST respond with a
SpellCheckerService_GetAll_OutputMessage response message.

3.1.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.7.1.1 SpellCheckerService_GetAll_InputMessage

The **SpellCheckerService_GetAll_InputMessage** request message initiates the retrieval of all spell-checkers.

The SOAP action value of the request message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAll
```

The SOAP body MUST contain a **GetAll** element.

3.1.4.7.1.2 SpellCheckerService_GetAll_OutputMessage

The **SpellCheckerService_GetAll_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetAll_InputMessage** message. The **SpellCheckerService_GetAll_InputMessage** request message initiates the operation to retrieve all the spell-checkers.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllResponse
```

The SOAP body MUST contain a **GetAllResponse** element.

3.1.4.7.1.3 SpellCheckerService_GetAll_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_GetAll_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetAll_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllAdminExcep
tionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.7.2 Elements

None.

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 GetAllTerms

The **GetAllTerms** operation is used to retrieve all terms for a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAllTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTerms" message="tns:SpellCheckerService_GetAllTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsResponse" message="tns:SpellCheckerService_GetAllTerms_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_GetAllTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_GetAllTerms_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_GetAllTerms_OutputMessage** response message.

3.1.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.8.1.1 SpellCheckerService_GetAllTerms_InputMessage

The **SpellCheckerService_GetAllTerms_InputMessage** request message initiates the operation to retrieve all terms for a spell-checker.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTerms
```

The SOAP body MUST contain a **GetAllTerms** element.

3.1.4.8.1.2 SpellCheckerService_GetAllTerms_OutputMessage

The **SpellCheckerService_GetAllTerms_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetAllTerms_InputMessage** message.

The **SpellCheckerService_GetAllTerms_InputMessage** request message initiates the operation to retrieve all terms for a spell-checker.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTermsRespo
nse
```

The SOAP body MUST contain a **GetAllTermsResponse** element.

3.1.4.8.1.3 SpellCheckerService_GetAllTerms_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_GetAllTerms_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetAllTerms_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTermsAdmin
ExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.8.2 Elements

None.

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 GetTerms

The **GetTerms** operation retrieves terms of a specific type for a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Terms" message="tns:SpellCheckerService_GetTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsResponse" message="tns:SpellCheckerService_GetTerms_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_GetTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_GetTerms_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_GetTerms_OutputMessage** response message.

3.1.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.9.1.1 SpellCheckerService_GetTerms_InputMessage

The **SpellCheckerService_GetTerms_InputMessage** request message initiates the operation to retrieve the terms of the given type for a spell-checker.

The SOAP action value of the request message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTerms
```

The SOAP body MUST contain a **GetTerms** element.

3.1.4.9.1.2 SpellCheckerService_GetTerms_OutputMessage

The **SpellCheckerService_GetTerms_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetTerms_InputMessage** message. The **SpellCheckerService_GetTerms_InputMessage** initiates the operation to retrieve terms for a spell-checker.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTermsResponse
```

The SOAP body MUST contain a **GetTermsResponse** element.

3.1.4.9.1.3 SpellCheckerService_GetTerms_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_GetTerms_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_GetTerms_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTermsAdminExc
eptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.9.2   Elements

None.

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   RemoveTerm

The **RemoveTerm** operation deletes a term from a spell-checker.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTerm" message="tns:SpellCheckerService_RemoveTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermResponse" message="tns:SpellCheckerService_RemoveTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SpellCheckerService_RemoveTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **SpellCheckerService_RemoveTerm_InputMessage** request message. On successful completion, the protocol server MUST respond with a **SpellCheckerService_RemoveTerm_OutputMessage** response message.

3.1.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.10.1.1 SpellCheckerService_RemoveTerm_InputMessage

The **SpellCheckerService_RemoveTerm_InputMessage** request message initiates the removal of the given term for a spell-checker.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTerm
```

The SOAP body MUST contain a **RemoveTerm** element.

3.1.4.10.1.2 SpellCheckerService_RemoveTerm_OutputMessage

The **SpellCheckerService_RemoveTerm_OutputMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_RemoveTerm_InputMessage** message. The **SpellCheckerService_RemoveTerm_InputMessage** request message initiates the operation to delete a term from a spell-checker.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTermRespon
se
```

The SOAP body MUST contain a **RemoveTermResponse** element.

3.1.4.10.1.3
SpellCheckerService_RemoveTerm_AdminExceptionWCFFault_FaultMessage

The **SpellCheckerService_RemoveTerm_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SpellCheckerService_RemoveTerm_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTermAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.1.4.10.2 Elements

None.

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.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

3.2 TermEntityExtractorService Server Details

This service provides operations for retrieval and removals of terms of the entity extractors.

3.2.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data that is maintained by an implementation 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.

The **TermEntityExtractorService** is stateless.

For each property extractor identifier, as maintained by the **LinguisticManagerService**, the **TermEntityExtractorService** MUST delegate the storage of one persisted dictionary of property extraction exclusions and one persisted dictionary of property extraction inclusions to the **PersistedDictionaryService**. The name of these persisted dictionaries MUST be equal to the name of the property extractor identifier.

Because the protocol server internally uses the **PersistedDictionaryService**, protocol clients can also use the **PersistedDictionaryService** to retrieve updated property extraction exclusions and inclusions to distribute and activate these.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Message Processing Events and Sequencing Rules

The following table specifies the message processing events and sequencing rules that are associated with this specification.

Operation	Description
AddTerm	Adds a term to a property extractor.
Clean	Deletes all terms from a property extractor.
CleanTerms	Deletes all terms from a property extractor satisfying the specified criteria.
Contains	Checks whether a property extractor exists.
ContainsTerm	Checks whether a property extractor contains a term.
Get	Retrieves property extractors satisfying the specified criteria.
GetAll	Retrieves all property extractors.
GetAllTerms	Retrieves all terms for a property extractor.
GetTerms	Retrieves terms for a property extractor satisfying the specified criteria.
RemoveTerm	Deletes a term for a property extractor.

3.2.4.1 AddTerm

The **AddTerm** operation adds a term to a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
Term" message="tns:TermEntityExtractorService_AddTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermResponse" message="tns:TermEntityExtractorService_AddTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_AddTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_AddTerm_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_AddTerm_OutputMessage** response message.

3.2.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.1.1.1 TermEntityExtractorService_AddTerm_InputMessage

The **TermEntityExtractorService_AddTerm_InputMessage** request message initiates the operation that adds a term to a property extractor.

The SOAP action value of the request message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/AddTerm
```

The SOAP body MUST contain an **AddTerm** element.

3.2.4.1.1.2 TermEntityExtractorService_AddTerm_OutputMessage

The **TermEntityExtractorService_AddTerm_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_AddTerm_InputMessage** message. The **TermEntityExtractorService_AddTerm_InputMessage** request message initiates the operation to add a term to a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/AddTermResponse
```

The SOAP body MUST contain an **AddTermResponse** element.

3.2.4.1.1.3 TermEntityExtractorService_AddTerm_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_AddTerm_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_AddTerm_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/AddTermAdminExce
ptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.1.2 Elements

None.

3.2.4.1.3 Complex Types

None.

3.2.4.1.4 Simple Types

None.

3.2.4.1.5 Attributes

None.

3.2.4.1.6 Groups

None.

3.2.4.1.7 Attribute Groups

None.

3.2.4.2 Clean

The **Clean** operation deletes all terms from a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Clean">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
an" message="tns:TermEntityExtractorService_Clean_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anResponse" message="tns:TermEntityExtractorService_Clean_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_Clean_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_Clean_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_Clean_OutputMessage** response message.

3.2.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.2.1.1 TermEntityExtractorService_Clean_InputMessage

The **TermEntityExtractorService_Clean_InputMessage** request message initiates the operation to remove all terms from a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Clean
```

The SOAP body MUST contain a **Clean** element.

3.2.4.2.1.2 TermEntityExtractorService_Clean_OutputMessage

The **TermEntityExtractorService_Clean_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Clean_InputMessage** message.

The **TermEntityExtractorService_Clean_InputMessage** request message initiates the operation to delete all terms from a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanResponse
```

The SOAP body MUST contain a **CleanResponse** element.

3.2.4.2.1.3 TermEntityExtractorService_Clean_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_Clean_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Clean_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanAdminExcept
ionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.2.2 Elements

None.

3.2.4.2.3 Complex Types

None.

3.2.4.2.4 Simple Types

None.

3.2.4.2.5 Attributes

None.

3.2.4.2.6 Groups

None.

3.2.4.2.7 Attribute Groups

None.

3.2.4.3 CleanTerms

The **CleanTerms** operation deletes all terms of a specific type from a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="CleanTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTerms" message="tns:TermEntityExtractorService_CleanTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsResponse" message="tns:TermEntityExtractorService_CleanTerms_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
  message="tns:TermEntityExtractorService_CleanTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_CleanTerms_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **TermEntityExtractorService_CleanTerms_OutputMessage** response message.

3.2.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.3.1.1 TermEntityExtractorService_CleanTerms_InputMessage

The **TermEntityExtractorService_CleanTerms_InputMessage** request message initiates the
operation that removes all the terms of a specific type from a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTerms
```

The SOAP body MUST contain a **CleanTerms** element.

3.2.4.3.1.2 TermEntityExtractorService_CleanTerms_OutputMessage

The **TermEntityExtractorService_CleanTerms_OutputMessage** response message is sent in
reply to the request that is initiated by the
TermEntityExtractorService_CleanTerms_InputMessage message. The
TermEntityExtractorService_CleanTerms_InputMessage message initiates the operation to
delete all terms of a specific type from a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTermsRespon
se
```

The SOAP body MUST contain a **CleanTermsResponse** element.

3.2.4.3.1.3 TermEntityExtractorService_CleanTerms_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_CleanTerms_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

TermEntityExtractorService_CleanTerms_InputMessage message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTermsAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.3.2 Elements

None.

3.2.4.3.3 Complex Types

None.

3.2.4.3.4 Simple Types

None.

3.2.4.3.5 Attributes

None.

3.2.4.3.6 Groups

None.

3.2.4.3.7 Attribute Groups

None.

3.2.4.4 Contains

The **Contains** operation checks whether a property extractor exists.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Contains">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tains" message="tns:TermEntityExtractorService_Contains_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsResponse" message="tns:TermEntityExtractorService_Contains_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_Contains_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_Contains_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_Contains_OutputMessage** response message.

3.2.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.4.1.1 TermEntityExtractorService_Contains_InputMessage

The **TermEntityExtractorService_Contains_InputMessage** request message initiates the operation that checks for the existence of a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Contains
```

The SOAP body MUST contain a **Contains** element.

3.2.4.4.1.2 TermEntityExtractorService_Contains_OutputMessage

The **TermEntityExtractorService_Contains_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Contains_InputMessage** message. The **TermEntityExtractorService_Contains_InputMessage** initiates the operation that checks for the existence of an entity extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsResponse
```

The SOAP body MUST contain a **ContainsResponse** element.

3.2.4.4.1.3 TermEntityExtractorService_Contains_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_Contains_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Contains_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsAdminExc
eptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.4.2 Elements

None.

3.2.4.4.3 Complex Types

None.

3.2.4.4.4 Simple Types

None.

3.2.4.4.5 Attributes

None.

3.2.4.4.6 Groups

None.

3.2.4.4.7 Attribute Groups

None.

3.2.4.5 ContainsTerm

The **ContainsTerm** operation checks for the existence of a property extractor term.

The following example specifies the structure of this operation.

```
<wsdl:operation name="ContainsTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTerm" message="tns:TermEntityExtractorService_ContainsTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermResponse" message="tns:TermEntityExtractorService_ContainsTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_ContainsTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_ContainsTerm_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_ContainsTerm_OutputMessage** response message.

3.2.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.5.1.1 TermEntityExtractorService_ContainsTerm_InputMessage

The **TermEntityExtractorService_ContainsTerm_InputMessage** request message initiates the operation that checks for the existence of a property extractor term.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTerm
```

The SOAP body MUST contain a **ContainsTerm** element.

3.2.4.5.1.2 TermEntityExtractorService_ContainsTerm_OutputMessage

The **TermEntityExtractorService_ContainsTerm_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_ContainsTerm_InputMessage** message. The **TermEntityExtractorService_ContainsTerm_InputMessage** initiates the operation to check for the existence of a property extractor term.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTermResp
onse
```

The SOAP body MUST contain a **ContainsTermResponse** element.

3.2.4.5.1.3 TermEntityExtractorService_ContainsTerm_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_ContainsTerm_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_ContainsTerm_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/ContainsTermAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.5.2 Elements

None.

3.2.4.5.3 Complex Types

None.

3.2.4.5.4 Simple Types

None.

3.2.4.5.5 Attributes

None.

3.2.4.5.6 Groups

None.

3.2.4.5.7 Attribute Groups

None.

3.2.4.6 Get

The **Get** operation retrieves property extractors.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Get">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
" message="tns:TermEntityExtractorService_Get_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Response" message="tns:TermEntityExtractorService_Get_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_Get_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_Get_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_Get_OutputMessage** response message.

3.2.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.6.1.1 TermEntityExtractorService_Get_InputMessage

The **TermEntityExtractorService_Get_InputMessage** request message initiates the retrieval of the property extractors.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
```

The SOAP body MUST contain a **Get** element.

3.2.4.6.1.2 TermEntityExtractorService_Get_OutputMessage

The **TermEntityExtractorService_Get_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Get_InputMessage** message. The **TermEntityExtractorService_Get_InputMessage** initiates the operation to retrieve property extractors.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetResponse
```

The SOAP body MUST contain a **GetResponse** element.

3.2.4.6.1.3 TermEntityExtractorService_Get_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_Get_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_Get_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAdminExceptio
nWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.6.2 Elements

None.

3.2.4.6.3 Complex Types

None.

3.2.4.6.4 Simple Types

None.

3.2.4.6.5 Attributes

None.

3.2.4.6.6 Groups

None.

3.2.4.6.7 Attribute Groups

None.

3.2.4.7 GetAll

The **GetAll** operation retrieves all property extractors.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAll">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
All" message="tns:TermEntityExtractorService_GetAll_InputMessage" />
```

```
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllResponse" message="tns:TermEntityExtractorService_GetAll_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_GetAll_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_GetAll_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_GetAll_OutputMessage** response message.

3.2.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.7.1.1 TermEntityExtractorService_GetAll_InputMessage

The **TermEntityExtractorService_GetAll_InputMessage** request message initiates the retrieval of all property extractors.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAll
```

The SOAP body MUST contain a **GetAll** element.

3.2.4.7.1.2 TermEntityExtractorService_GetAll_OutputMessage

The **TermEntityExtractorService_GetAll_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetAll_InputMessage** message. The **TermEntityExtractorService_GetAll_InputMessage** response message initiates the operation to retrieve all the property extractors.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllResponse
```

The SOAP body MUST contain a **GetAllResponse** element.

3.2.4.7.1.3 TermEntityExtractorService_GetAll_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_GetAll_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetAll_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllAdminExcep
tionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.7.2 Elements

None.

3.2.4.7.3 Complex Types

None.

3.2.4.7.4 Simple Types

None.

3.2.4.7.5 Attributes

None.

3.2.4.7.6 Groups

None.

3.2.4.7.7 Attribute Groups

None.

3.2.4.8 GetAllTerms

The **GetAllTerms** operation retrieves all terms for a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAllTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTerms" message="tns:TermEntityExtractorService_GetAllTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsResponse" message="tns:TermEntityExtractorService_GetAllTerms_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_GetAllTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_GetAllTerms_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **TermEntityExtractorService_GetAllTerms_OutputMessage** response message.

3.2.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.8.1.1 TermEntityExtractorService_GetAllTerms_InputMessage

The **TermEntityExtractorService_GetAllTerms_InputMessage** request message initiates the retrieval of all terms for a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTerms
```

The SOAP body MUST contain a **GetAllTerms** element.

3.2.4.8.1.2 TermEntityExtractorService_GetAllTerms_OutputMessage

The **TermEntityExtractorService_GetAllTerms_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetAllTerms_InputMessage** message. The **TermEntityExtractorService_GetAllTerms_InputMessage** initiates the operation to retrieve all terms for a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTermsRespo
nse
```

The SOAP body MUST contain a **GetAllTerms** element.

3.2.4.8.1.3 TermEntityExtractorService_GetAllTerms_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_GetAllTerms_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetAllTerms_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTermsAdmin
ExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.8.2 Elements

None.

3.2.4.8.3 Complex Types

None.

3.2.4.8.4 Simple Types

None.

3.2.4.8.5 Attributes

None.

3.2.4.8.6 Groups

None.

3.2.4.8.7 Attribute Groups

None.

3.2.4.9 GetTerms

The **GetTerms** operation retrieves terms for a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetTerms">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Terms" message="tns:TermEntityExtractorService_GetTerms_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsResponse" message="tns:TermEntityExtractorService_GetTerms_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_GetTerms_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_GetTerms_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_GetTerms_OutputMessage** response message.

3.2.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.9.1.1 TermEntityExtractorService_GetTerms_InputMessage

The **TermEntityExtractorService_GetTerms_InputMessage** request message initiates the retrieval of terms for a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTerms
```

The SOAP body MUST contain a **GetTerms** element.

3.2.4.9.1.2 TermEntityExtractorService_GetTerms_OutputMessage

The **TermEntityExtractorService_GetTerms_OutputMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetTerms_InputMessage** message. **TermEntityExtractorService_GetTerms_InputMessage** initiates the operation to retrieve terms for a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTermsResponse
```

The SOAP body MUST contain a **GetTermsResponse** element.

3.2.4.9.1.3 TermEntityExtractorService_GetTerms_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_GetTerms_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_GetTerms_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetTermsAdminExc
eptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.9.2 Elements

None.

3.2.4.9.3 Complex Types

None.

3.2.4.9.4 Simple Types

None.

3.2.4.9.5 Attributes

None.

3.2.4.9.6 Groups

None.

3.2.4.9.7 Attribute Groups

None.

3.2.4.10 RemoveTerm

The **RemoveTerm** operation deletes a term from a property extractor.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveTerm">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTerm" message="tns:TermEntityExtractorService_RemoveTerm_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermResponse" message="tns:TermEntityExtractorService_RemoveTerm_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:TermEntityExtractorService_RemoveTerm_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **TermEntityExtractorService_RemoveTerm_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **TermEntityExtractorService_RemoveTerm_OutputMessage** response message.

3.2.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.2.4.10.1.1 TermEntityExtractorService_RemoveTerm_InputMessage

The **TermEntityExtractorService_RemoveTerm_InputMessage** request message initiates the removal of a term from a property extractor.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTerm
```

The SOAP body MUST contain a **RemoveTerm** element.

3.2.4.10.1.2 TermEntityExtractorService_RemoveTerm_OutputMessage

The **TermEntityExtractorService_RemoveTerm_OutputMessage** response message is sent in reply to the request that is initiated by the
TermEntityExtractorService_RemoveTerm_InputMessage message. The
TermEntityExtractorService_RemoveTerm_InputMessage initiates the operation to delete a term from a property extractor.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTermRespon
se
```

The SOAP body MUST contain a **RemoveTermResponse** element.

3.2.4.10.1.3 TermEntityExtractorService_RemoveTerm_AdminExceptionWCFFault_FaultMessage

The **TermEntityExtractorService_RemoveTerm_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **TermEntityExtractorService_RemoveTerm_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/RemoveTermAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.2.4.10.2 Elements

None.

3.2.4.10.3 Complex Types

None.

3.2.4.10.4 Simple Types

None.

3.2.4.10.5 Attributes

None.

3.2.4.10.6 Groups

None.

3.2.4.10.7 Attribute Groups

None.

3.2.5 Timer Events

None.

3.2.6 Other Local Events

None.

3.3 DeploymentService Server Details

This service provides the operation required for deployment of dictionaries.

3.3.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

Distributed search system components that use dictionaries that contain spell-check exclusions, or that contain property exclusions and inclusions, might not automatically retrieve updated versions of these dictionaries when they are updated by protocol clients. Protocol clients use the DeploymentService to force components that use these dictionaries to download and activate updated dictionaries.

The DeploymentService is stateless.

The protocol server MUST use several other protocols to propagate deployment operations in the system. More specifically, the protocol server MUST use the following protocols to perform the following tasks:

- To deploy property extraction exclusion and exclusion dictionaries, the protocol server MUST use the Configuration Protocol, as specified in [MS-FSCMW], and the Query and Result Configuration Protocol, as specified in [MS-FSQRC].

- To deploy spell-check exception dictionaries, the protocol server MUST use the Query and Result Configuration Protocol, as specified in [MS-FSQRC].

These protocols are based on the Middleware Protocol, as specified in [MS-FSMW].

The following figure shows the communication flow in the DeploymentService Web Service.
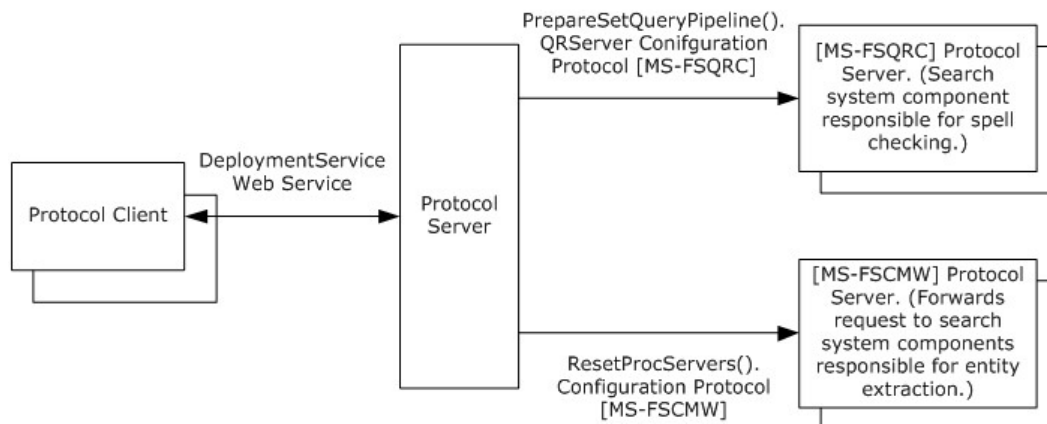
Figure 3: Communication flow in the DeploymentService Web Service

3.3.2 Timers

None.

3.3.3 Initialization

None.

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3.3.4 Message Processing Events and Sequencing Rules

The following table specifies the message processing events and sequencing rules that are associated with the DeploymentService.

Operation	Description
Deploy	Distributes and activates either spell-check dictionaries or property extraction exclusion and exclusion dictionaries.

3.3.4.1 Deploy

Distributes and activates dictionaries of the given type in the search system.

If the given **LinguisticType** is SPELLCHECKING, the operation distributes and activates spell-check dictionaries to spell-checkers in the search system. This MUST be achieved by calling the **PrepareSetQueryPipeline** operation on all Query and Result Processing protocol servers in the search system, as specified in [MS-FSQRC].

If the given **LinguisticType** is ENTITYEXTRACTION, the operation distributes and activates property extraction exclusion and inclusion dictionaries to entity extractors in the search system. This MUST be performed by calling the **PrepareSetQueryPipeline** operation on all Query and Result Processing protocol servers in the search system, as specified in [MS-FSQRC]; and calling the **ResetProcServers** operation on the protocol server, as specified in [MS-FSCMW].

The following example shows the **Deploy** operation.

```
<wsdl:operation name="Deploy">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loy" message="tns:DeploymentService_Deploy_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loyResponse" message="tns:DeploymentService_Deploy_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:DeploymentService_Deploy_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **DeploymentService_Deploy_InputMessage** request message and the protocol server MUST respond with a **DeploymentService_Deploy_OutputMessage** response message when the operation finishes successfully.

3.3.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.3.4.1.1.1 DeploymentService_Deploy_InputMessage

The **DeploymentService_Deploy_InputMessage** request message initiates the deployment of spell-check exclusion or property extraction exclusion and inclusion dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Deploy
```

The SOAP body MUST contain a **Deploy** element.

3.3.4.1.1.2 DeploymentService_Deploy_OutputMessage

The **DeploymentService_Deploy_OutputMessage** response message is sent in reply to the request that is initiated by the **DeploymentService_Deploy_InputMessage** message. The **DeploymentService_Deploy_InputMessage** initiates the operation to deploy spell-check or property extraction configuration.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/DeployResponse
```

The SOAP body MUST contain a **DeployResponse** element.

3.3.4.1.1.3 DeploymentService_Deploy_AdminExceptionWCFFault_FaultMessage

The **DeploymentService_Deploy_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **DeploymentService_Deploy_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/DeployAdminExcep
tionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.3.4.1.2 Elements

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

3.3.4.1.2.1 Deploy

The **Deploy** element contains input data for a **Deploy** operation.

The following example specifies the structure of this element.

```
<xsd:element name="Deploy">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="type" type="tns:LinguisticType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

LinguisticType: The type of the dictionaries to deploy.

DeployResponse: The result data for a **Deploy** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DeployResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.3.4.1.3 Complex Types

None.

3.3.4.1.4 Simple Types

None.

3.3.4.1.5 Attributes

None.

3.3.4.1.6 Groups

None.

3.3.4.1.7 Attribute Groups

None.

3.3.5 Timer Events

None.

3.3.6 Other Local Events

None.

3.4 PersistedDictionaryService Server Details

This service provides operations related to persisted dictionaries.

3.4.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The PersistedDictionaryService protocol server acts as a storage location for persisted dictionaries. The SpellCheckerService protocol server MUST use the PersistedDictionaryService to persist dictionaries of spell-check exclusions. The TermEntityExtractorService protocol server MUST use the PersistedDictionaryService to persist dictionaries of property extraction exclusion and exclusions."

The protocol server MUST maintain a list of the following:

Persisted dictionary: A persisted dictionary consists of a name, a Boolean flag named "dirty" and a list of entries, each of which consists of a key/value pair of strings.

When a change such as adding or removing an entry is made to a persisted dictionary, the protocol server MUST set the "dirty" value of the persisted dictionary to **true**.

The contents of the key and value strings depend on the usage of the persisted dictionary. The **SpellCheckerService** uses the keys to store spell-check exclusions, while **TermEntityExtractorService** stores property extraction exclusions and exclusions. Both of these services leave the value field empty.

3.4.2 Timers

None.

3.4.3 Initialization

None.

3.4.4 Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
Add	Add a new persisted dictionary.
AddEntry	Add an entry to a persisted dictionary.
ChangeName	Change the name of a persisted dictionary.
Contains	Check whether a persisted dictionary exists.
ContainsEntry	Check whether a persisted dictionary contains a specific entry.
ContainsEntryKey	Check whether a persisted dictionary contains an entry with a specific key.
Clear	Clear all entries in a persisted dictionary.
Count	Return the number of persisted dictionaries.
CountEntries	Return the number of entries in a persisted dictionary.
Get	Retrieve the names of a subset of persisted dictionaries.
GetAll	Retrieve the names of all persisted dictionaries.
GetAllEntries	Retrieve all entries for one persisted dictionary.
GetEntries	Retrieve a subset of entries for one persisted dictionary.
GetEntriesAndSetClean	Retrieve all entries from a persisted dictionary and set the "dirty" value to **false**.
GetEntryKeys	Retrieve all entry keys from one persisted dictionary.
GetEntryValue	Retrieve a persisted dictionary entry value.

Operation	Description
GetEntryValues	Retrieve all entry values from one persisted dictionary.
IsDirty	Check whether the "dirty" value is **true** for a persisted dictionary.
Remove	Delete a persisted dictionary.
RemoveAll	Delete all persisted dictionaries.
RemoveEntry	Delete a persisted dictionary entry.
SetDirty	Set the persisted dictionary "dirty" value to **true**.
CountEntries	Set a persisted dictionary entry value.

3.4.4.1 Add

The **Add** operation creates a new persisted dictionary.

The following example specifies the structure of this element.

```
<wsdl:operation name="Add">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Add" message="tns:PersistedDictionaryService_Add_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddResponse" message="tns:PersistedDictionaryService_Add_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Add_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Add_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_Add_OutputMessage** response message.

The protocol server MUST set the dirty value of the persisted dictionary to **false**.

3.4.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.1.1.1 PersistedDictionaryService_Add_InputMessage

The **PersistedDictionaryService_Add_InputMessage** request message initiates the addition of a new persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Add
```

The SOAP body MUST contain an **Add** element.

3.4.4.1.1.2 PersistedDictionaryService_Add_OutputMessage

The **PersistedDictionaryService_Add_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Add_InputMessage** message. The **PersistedDictionaryService_Add_InputMessage** message initiates the request to add a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/AddResp
osne
```

The SOAP body MUST contain an **AddResponse** element.

3.4.4.1.1.3 PersistedDictionaryService_Add_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_Add_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Add_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/AddAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.1.2 Elements

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

3.4.4.1.2.1 Add

The **Add** element contains input data for an **Add** operation.

The following example specifies the structure of this element.

```
<xsd:element name="Add">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the persisted dictionary to add. The name MUST be unique for each persisted dictionary.

3.4.4.1.2.2 AddResponse

The **AddResponse** element contains result data for an **Add** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.1.3 Complex Types

None.

3.4.4.1.4 Simple Types

None.

3.4.4.1.5 Attributes

None.

3.4.4.1.6 Groups

None.

3.4.4.1.7 Attribute Groups

None.

3.4.4.2 AddEntry

The **AddEntry** operation adds an entry to a persisted dictionary.

The following example specifies the structure of this element.

```
<wsdl:operation name="AddEntry">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntry" message="tns:PersistedDictionaryService_AddEntry_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntryResponse" message="tns:PersistedDictionaryService_AddEntry_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_AddEntry_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_AddEntry_InputMessage** request message and the protocol server MUST respond with a **PersistedDictionaryService_AddEntry_OutputMessage** response message when the operation finishes successfully.

The protocol server MUST set the "dirty" value of the persisted dictionary to **true**.

3.4.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.2.1.1 PersistedDictionaryService_AddEntry_InputMessage

The **PersistedDictionaryService_AddEntry_InputMessage** request message initiates the adding of an entry to a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/AddEntr
y
```

The SOAP body MUST contain an **AddEntry** element.

3.4.4.2.1.2 PersistedDictionaryService_AddEntry_OutputMessage

The **PersistedDictionaryService_AddEntry_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_AddEntry_InputMessage** message. The **PersistedDictionaryService_AddEntry_InputMessage** initiates the operation to add an entry to a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/AddEntr
yResponse
```

The SOAP body MUST contain an **AddEntryResponse** element.

3.4.4.2.1.3 PersistedDictionaryService_AddEntry_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_AddEntry_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_AddEntry_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/AddEntryAdminExceptionWCFFault
```

The SOAP body MUST contain a **AdminExceptionWCF** element.

3.4.4.2.2 Elements

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

3.4.4.2.2.1 AddEntry

The **AddEntry** element contains input data for an **AddEntry** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddEntry">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="entry" type="scg:KeyValuePairOfstringstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of a persisted dictionary.

entry: The entry to add.

3.4.4.2.2   AddEntryResponse

The **AddEntryResponse** element contains result data for an **Add** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddEntryResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.2.3   Complex Types

None.

3.4.4.2.4   Simple Types

None.

3.4.4.2.5   Attributes

None.

3.4.4.2.6   Groups

None.

3.4.4.2.7   Attribute Groups

None.

3.4.4.3   ChangeName

The **ChangeName** operation changes the name of a persisted dictionary.

The following example specifies the structure of this element.

```
<wsdl:operation name="ChangeName">
```

```
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeName" message="tns:PersistedDictionaryService_ChangeName_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeNameResponse" message="tns:PersistedDictionaryService_ChangeName_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeNameAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_ChangeName_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **PersistedDictionaryService_ChangeName_OutputMessage** response message.

The protocol server MUST set the "dirty" value of the persisted dictionary to **true**.

3.4.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.3.1.1 PersistedDictionaryService_ChangeName_InputMessage

The **PersistedDictionaryService_ChangeName_InputMessage** request message initiates the changing of a persisted dictionary name.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/ChangeN
ame
```

The SOAP body MUST contain a **ChangeName** element.

3.4.4.3.1.2 PersistedDictionaryService_ChangeName_OutputMessage

The **PersistedDictionaryService_ChangeName_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_ChangeName_InputMessage**.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/ChangeN
ameResponse
```

The SOAP body MUST contain a **ChangeNameResponse** element.

3.4.4.3.1.3 PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the

PersistedDictionaryService_ChangeName_InputMessage message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/ChangeN
ameAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.3.2 Elements

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

3.4.4.3.2.1 ChangeName

The **ChangeName** element contains input data for a **ChangeName** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ChangeName">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="oldName" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="newName" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

oldName: The name of the persisted dictionary that is to be renamed.

newName: The new name of the persisted dictionary.

3.4.4.3.2.2 ChangeNameResponse

The **ChangeNameResponse** element contains result data for a **ChangeName** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ChangeNameResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.3.3 Complex Types

None.

3.4.4.3.4 Simple Types

None.

3.4.4.3.5 Attributes

None.

3.4.4.3.6 Groups

None.

3.4.4.3.7 Attribute Groups

None.

3.4.4.4 Contains

The **Contains** operation checks whether a persisted dictionary exists.

The following example specifies the structure of this element.

```
<wsdl:operation name="Contains">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Contains" message="tns:PersistedDictionaryService_Contains_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsResponse" message="tns:PersistedDictionaryService_Contains_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Contains_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Contains_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_Contains_OutputMessage** response message.

3.4.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.4.1.1 PersistedDictionaryService_Contains_InputMessage

The **PersistedDictionaryService_Contains_InputMessage** request message initiates a check on the existence of a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
s
```

The SOAP body MUST contain a **Contains** element.

3.4.4.4.1.2 PersistedDictionaryService_Contains_OutputMessage

The **PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the

PersistedDictionary_Contains_InputMessage message. The
PersistedDictionaryService_Contains_InputMessage message initiates an operation to check
whether a persisted dictionary exists.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sResponse
```

The SOAP body MUST contain a **ContainsResponse** element.

3.4.4.4.1.3   PersistedDictionaryService_Contains_AdminWCFFault_FaultMessage

The **PersistedDictionaryService_Contains_AdminWCFFault_FaultMessage** response message
is sent in reply to the request that is initiated by the
PersistedDictionary_Contains_InputMessage message. The protocol server MUST return this
message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContainsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.4.2   Elements

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

3.4.4.4.2.1   Contains

The **Contains** element contains input data for a **Contains** operation.

The following example specifies the structure of this element.

```
<xsd:element name="Contains">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of a persisted dictionary.

3.4.4.4.2.2   ContainsResponse

The **ContainsResponse** element contains result data for a **Contains** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsResponse">
  <xsd:complexType>
    <xsd:sequence>
```

```
        <xsd:element minOccurs="0" name="ContainsResult" type="xsd:boolean" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

ContainsResult: The value is **true** if the persisted dictionary exists; otherwise, the value is **false**.

3.4.4.4.3 Complex Types

None.

3.4.4.4.4 Simple Types

None.

3.4.4.4.5 Attributes

None.

3.4.4.4.6 Groups

None.

3.4.4.4.7 Attribute Groups

None.

3.4.4.5 ContainsEntry

The **ContainsEntry** operation checks whether a persisted dictionary contains a specific entry.

The following example specifies the structure of this element.

```
<wsdl:operation name="ContainsEntry">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntry" message="tns:PersistedDictionaryService_ContainsEntry_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryResponse"
message="tns:PersistedDictionaryService_ContainsEntry_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_ContainsEntry_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_ContainsEntry_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_ContainsEntry_OutputMessage** response message.

3.4.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.5.1.1 PersistedDictionaryService_ContainsEntry_InputMessage

The **PersistedDictionaryService_ContainsEntry_InputMessage** request message initiates the operation to check on the existence of a persisted dictionary entry.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntry
```

The SOAP body MUST contain a **ContainsEntry** element.

3.4.4.5.1.2 PersistedDictionaryService_ContainsEntry_OutputMessage

The **PersistedDictionaryService_ContainsEntry_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_ContainsEntry_InputMessage** message. The **PersistedDictionaryService_ContainsEntry_InputMessage** initiates the operation to check for the existence of a persisted dictionary entry.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntryResponse
```

The SOAP body MUST contain a **ContainsEntryResponse** element.

3.4.4.5.1.3 PersistedDictionaryService_ContainsEntry_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_ContainsEntry_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionary_ContainsEntry_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.5.2 Elements

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

3.4.4.5.2.1 ContainsEntry

The **ContainsEntry** element contains input data for a **ContainsEntry** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsEntry">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="entry" type="scg:KeyValuePairOfstringstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

entry: A persisted dictionary entry.

3.4.4.5.2.2   ContainsEntryResponse

The **ContainsEntryResponse** element contains result data for a **ContainsEntry** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsEntryResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsEntryResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsEntryResult: The value is **true** if the entry exists; otherwise, the value is **false**.

3.4.4.5.3   Complex Types

None.

3.4.4.5.4   Simple Types

None.

3.4.4.5.5   Attributes

None.

3.4.4.5.6   Groups

None.

3.4.4.5.7   Attribute Groups

None.

3.4.4.6   ContainsEntryKey

The **ContainsEntryKey** operation checks whether a persisted dictionary contains an entry with a specific key.

The following example specifies the structure of this element.

```
<wsdl:operation name="ContainsEntryKey">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKey"
message="tns:PersistedDictionaryService_ContainsEntryKey_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKeyResponse"
message="tns:PersistedDictionaryService_ContainsEntryKey_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKeyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_ContainsEntryKey_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a
PersistedDictionaryService_ContainsEntryKey_InputMessage request message. On
successful completion, the protocol server MUST respond with a
PersistedDictionaryService_ContainsEntryKey_OutputMessage response message.

3.4.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.6.1.1 PersistedDictionaryService_ContainsEntryKey_InputMessage

The **PersistedDictionaryService_ContainsEntryKey_InputMessage** request message initiates a
check on the existence of a persisted dictionary entry key.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntryKey
```

The SOAP body MUST contain a **ContainsEntryKey** element.

3.4.4.6.1.2 PersistedDictionaryService_ContainsEntryKey_OutputMessage

The **PersistedDictionaryService_ContainsEntryKey_OutputMessage** response message is sent
in reply to the request that is initiated by the
PersistedDictionaryService_ContainsEntryKey_InputMessage message. The
PersistedDictionaryService_ContainsEntryKey_InputMessage initiates the operation that
checks for the existence of a persisted dictionary entry key.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntryKeyResponse
```

The SOAP body MUST contain a **ContainsEntryKeyResponse** element.

3.4.4.6.1.3 PersistedDictionaryService_ContainsEntryKey_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_ContainsEntryKey_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_ContainsEntryKey_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Contain
sEntryKeyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.6.2 Elements

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

3.4.4.6.2.1 ContainsEntryKey

The **ContainsEntryKey** element contains input data for a **ContainsEntryKey** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsEntryKey">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="key" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

key: String representing the key in a persisted dictionary entry.

3.4.4.6.2.2 ContainsEntryKeyResponse

The **ContainsEntryKeyResponse** element contains result data for a **ContainsEntryKey** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ContainsEntryKeyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsEntryKeyResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsEntryResult: The value is **true** if the persisted dictionary contains an entry with the key; otherwise, the value is **false**.

3.4.4.6.3 Complex Types

None.

3.4.4.6.4 Simple Types

None.

3.4.4.6.5 Attributes

None.

3.4.4.6.6 Groups

None.

3.4.4.6.7 Attribute Groups

None.

3.4.4.7 Clear

The **Clear** operation deletes all entries from a persisted dictionary.

The following example specifies the structure of this element.

```
<wsdl:operation name="Clear">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Clear" message="tns:PersistedDictionaryService_Clear_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ClearResponse" message="tns:PersistedDictionaryService_Clear_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ClearAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Clear_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **PersistedDictionaryService_Clear_OutputMessage** response message.

The protocol server MUST set the "dirty" value of the persisted dictionary to **true**.

3.4.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.7.1.1 PersistedDictionaryService_Clear_InputMessage

The **PersistedDictionaryService_Clear_InputMessage** request message initiates the removal of all persisted dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Clear
```

The SOAP body MUST contain a **Clear** element.

3.4.4.7.1.2 PersistedDictionaryService_Clear_OutputMessage

The **PersistedDictionaryService_Clear_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Clear_InputMessage** message. The **PersistedDictionaryService_Clear_InputMessage** message initiates the operation to delete all persisted dictionaries.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/ClearRe
sponse
```

The SOAP body MUST contain an **ClearResponse** element.

3.4.4.7.1.3 PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Clear_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/AddEntr
yAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.7.2 Elements

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

3.4.4.7.2.1 Clear

The **Clear** element contains input data for a **Clear** operation.

The following example specifies the structure of this element.

```
<xsd:element name="Clear">
  <xsd:complexType>
    <xsd:sequence>
```

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

name: Name of a persisted dictionary.

3.4.4.7.2.2 ClearResponse

The **ClearResponse** element contains result data for a **Clear** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ClearResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.7.3 Complex Types

None.

3.4.4.7.4 Simple Types

None.

3.4.4.7.5 Attributes

None.

3.4.4.7.6 Groups

None.

3.4.4.7.7 Attribute Groups

None.

3.4.4.8 Count

The **Count** operation returns the number of persisted dictionaries that exist.

The following example specifies the structure of this element.

```
<wsdl:operation name="Count">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Count" message="tns:PersistedDictionaryService_Count_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountResponse" message="tns:PersistedDictionaryService_Count_OutputMessage"/>
```

```
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Count_AdminExceptionWCFFault_FaultMessage"/>
  </wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Count_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_Count_OutputMessage** response message.

3.4.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.8.1.1 PersistedDictionaryService_Count_InputMessage

The **PersistedDictionaryService_Count_InputMessage** request message initiates the counting of the number of persisted dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Count
```

The SOAP body MUST contain a **Count** element.

3.4.4.8.1.2 PersistedDictionaryService_Count_OutputMessage

The **PersistedDictionaryService_Count_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Count_InputMessage** message. The **PersistedDictionaryService_Count_InputMessage** message initiates the operation to count the number of persisted dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountRe
sponse
```

The SOAP body MUST contain a **CountResponse** element.

3.4.4.8.1.3 PersistedDictionaryService_Count_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_Count_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Count_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountAd
minExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.8.2 Elements

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

3.4.4.8.2.1 Count

The **Count** element contains input data for a **Count** operation.

The following example specifies the structure of this element.

```
<xsd:element name="Count">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.8.2.2 CountResponse

The **CountResponse** element contains result data for a **Count** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountResult: The number of persisted dictionaries.

3.4.4.8.3 Complex Types

None.

3.4.4.8.4 Simple Types

None.

3.4.4.8.5 Attributes

None.

3.4.4.8.6 Groups

None.

3.4.4.8.7   Attribute Groups

None.

3.4.4.9   CountEntries

The **CountEntries** operation returns the number of entries that exist in a persisted dictionary.

The following example specifies the structure of this element.

```
<wsdl:operation name="CountEntries">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEntries" message="tns:PersistedDictionaryService_CountEntries_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEntriesResponse"
message="tns:PersistedDictionaryService_CountEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEntriesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_CountEntries_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_CountEntries_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_CountEntries_OutputMessage** response message.

3.4.4.9.1   Messages

The following WSDL message definitions are specific to this operation.

3.4.4.9.1.1   PersistedDictionaryService_CountEntries_InputMessage

The **PersistedDictionaryService_CountEntries_InputMessage** request message initiates the counting of the number of entries in a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEntries
```

The SOAP body MUST contain a **CountEntries** element.

3.4.4.9.1.2   PersistedDictionaryService_CountEntries_OutputMessage

The **PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_CountEntries_InputMessage** message. The **PersistedDictionaryService_CountEntries_InputMessage** message initiates the operation to count the number of entries in a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEn
triesResponse
```

The SOAP body MUST contain a **CountEntriesResponse** element.

3.4.4.9.1.3 PersistedDictionaryService_CountEntries_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_CountEntries_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_CountEntries_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/CountEn
triesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.9.2 Elements

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

3.4.4.9.2.1 CountEntries

The **CountEntries** element contains input data for a **CountEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountEntries">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of a persisted dictionary.

3.4.4.9.2.2 CountEntriesResponse

The **CountEntriesResponse** element contains result data for a **CountEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountEntriesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountEntriesResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
```

```
    </xsd:element>
```

CountEntriesResult: The number of entries in a persisted dictionary.

3.4.4.9.3 Complex Types

None.

3.4.4.9.4 Simple Types

None.

3.4.4.9.5 Attributes

None.

3.4.4.9.6 Groups

None.

3.4.4.9.7 Attribute Groups

None.

3.4.4.10 Get

The **Get** operation retrieves the names of a subset of the persisted dictionaries that exist in the system. The size and ordering of the set that is retrieved is controlled by values in the **Get** input message.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Get">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Get" message="tns:PersistedDictionaryService_Get_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetResponse" message="tns:PersistedDictionaryService_Get_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Get_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_Get_OutputMessage** response message.

3.4.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.10.1.1   PersistedDictionaryService_Get_InputMessage

The **PersistedDictionaryService_Get_InputMessage** request message initiates the retrieval of persisted dictionary names.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionary/Get
```

The SOAP body MUST contain a **Get** element.

3.4.4.10.1.2   PersistedDictionaryService_Get_OutputMessage

The **PersistedDictionaryService_Get_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Get_InputMessage** message. The **PersistedDictionaryService_Get_InputMessage** message initiates the operation to retrieve persisted dictionary names.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionary/GetResponse
```

The SOAP body MUST contain a **GetResponse** element.

3.4.4.10.1.3   PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.10.2   Elements

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

3.4.4.10.2.1   Get

The **Get** element contains input data for a **Get** operation. The offset and count parameters enable protocol clients to retrieve batches of elements from a potentially large result set.

The following example specifies the structure of this element.

```
<xsd:element name="Get">
  <xsd:complexType>
    <xsd:sequence>
```

```
          <xsd:element minOccurs="0" name="field" type="tns:SortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

field: The field to sort by.

direction: The direction in which to sort.

offset: The number of persisted dictionaries to skip after sorting the result.

count: The maximum number of persisted dictionaries to retrieve.

3.4.4.10.2.2   GetResponse

The **GetResponse** element contains result data for a **Get** operation.

The following example specifies the structure of this operation.

```
  <xsd:element name="GetResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetResult" nillable="true" type="msa:ArrayOfstring" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

GetResult: An array of persisted dictionary names.

3.4.4.10.3   Complex Types

None.

3.4.4.10.4   Simple Types

None.

3.4.4.10.5   Attributes

None.

3.4.4.10.6   Groups

None.

3.4.4.10.7   Attribute Groups

None.

3.4.4.11 GetAll

The **GetAll** operation retrieves all persisted dictionary names.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAll">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAll" message="tns:PersistedDictionaryService_GetAll_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllResponse" message="tns:PersistedDictionaryService_GetAll_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetAll_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_GetAll_OutputMessage** response message.

3.4.4.11.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.11.1.1 PersistedDictionaryService_GetAll_InputMessage

The **PersistedDictionaryService_GetAll_InputMessage** request message initiates the operation to retrieve all persisted dictionary names.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetAll
```

The SOAP body MUST contain a **GetAll** element.

3.4.4.11.1.2 PersistedDictionaryService_GetAll_OutputMessage

The **PersistedDictionaryService_GetAll_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetAll_InputMessage** message. The **PersistedDictionaryService_GetAll_InputMessage** initiates the request to retrieve all persisted dictionary names.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionary/GetAllResponse
```

The SOAP body MUST contain a **GetAllResponse** element.

3.4.4.11.1.3 PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetAll_InputMessage** request message. The **PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage** MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetAllA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.11.2 Elements

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

3.4.4.11.2.1 GetAll

The **GetAll** element contains input data for a **GetAll** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAll">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.11.2.2 GetAllResponse

The **GetAllResponse** element contains result data for a **GetAll** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllResult" nillable="true" type="msa:ArrayOfstring"
/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllResult: An array of persisted dictionary names.

3.4.4.11.3 Complex Types

None.

3.4.4.11.4 Simple Types

None.

3.4.4.11.5 Attributes

None.

3.4.4.11.6 Groups

None.

3.4.4.11.7 Attribute Groups

None.

3.4.4.12 GetAllEntries

The **GetAllEntries** operation retrieves all entries for one persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAllEntries">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllEntries" message="tns:PersistedDictionaryService_GetAllEntries_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllEntriesResponse"
message="tns:PersistedDictionaryService_GetAllEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllEntriesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetAllEntries_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetAllEntries_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_GetAllEntries_OutputMessage** response message.

3.4.4.12.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.12.1.1 PersistedDictionaryService_GetAllEntries_InputMessage

The **PersistedDictionaryService_GetAllEntries_InputMessage** request message initiates the operation to retrieve all the entries for a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionary/GetAllEntries
```

The SOAP body MUST contain a **GetAllEntries** element.

3.4.4.12.1.2 PersistedDictionaryService_GetAllEntries_OutputMessage

The **PersistedDictionaryService_GetAllEntries_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetAllEntries_InputMessage**. The **PersistedDictionaryService_GetAllEntries_InputMessage** initiates the operation to retrieve all entries for a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetAllE
ntriesResponse
```

The SOAP body MUST contain a **GetAllEntriesResponse** element.

3.4.4.12.1.3 PersistedDictionaryService_GetAllEntries_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetAllEntries_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionary_GetAllEntries_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetAllE
ntriesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.12.2 Elements

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

3.4.4.12.2.1 GetAllEntries

The **GetAllEntries** element contains input data for a **GetAllEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllEntries">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of a persisted dictionary.

3.4.4.12.2.2 GetAllEntriesResponse

The **GetAllEntriesResponse** element contains result data for a **GetAllEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllEntriesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllEntriesResult" nillable="true"
type="msa:ArrayOfKeyValueOfstringstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllEntriesResult: An array of persisted dictionary entries.

3.4.4.12.3 Complex Types

None.

3.4.4.12.4 Simple Types

None.

3.4.4.12.5 Attributes

None.

3.4.4.12.6 Groups

None.

3.4.4.12.7 Attribute Groups

None.

3.4.4.13 GetEntries

The **GetEntries** operation retrieves entries for a persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEntries">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntries" message="tns:PersistedDictionaryService_GetEntries_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesResponse" message="tns:PersistedDictionaryService_GetEntries_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetEntries_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetEntries_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_GetEntries_OutputMessage** response message.

3.4.4.13.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.13.1.1 PersistedDictionaryService_GetEntries_InputMessage

The **PersistedDictionaryService_GetEntries_InputMessage** request message initiates the retrieval of entries for a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
ies
```

The SOAP body MUST contain a **GetEntries** element.

3.4.4.13.1.2 PersistedDictionaryService_GetEntries_OutputMessage

The **PersistedDictionaryService_GetEntries_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntries_InputMessage**. The **PersistedDictionaryService_GetEntries_InputMessage** initiates the operation to retrieve entries for a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
iesResponse
```

The SOAP body MUST contain a **GetEntriesResponse** element.

3.4.4.13.1.3 PersistedDictionaryService_GetEntries_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetEntries_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntries_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
iesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.13.2 Elements

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

3.4.4.13.2.1 GetEntries

The **GetEntries** element contains input data for a **GetEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntries">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the persisted dictionary.

direction: The direction in which to sort.

offset: The number of entries to skip after sorting the result.

count: The maximum number of entries to return.

3.4.4.13.2.2 GetEntriesResponse

The **GetEntriesResponse** element contains result data for a **GetEntries** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntriesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetEntriesResult" nillable="true"
type="msa:ArrayOfKeyValueOfstringstring"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetEntriesResult: An array of entries.

3.4.4.13.3 Complex Types

None.

3.4.4.13.4 Simple Types

None.

3.4.4.13.5 Attributes

None.

3.4.4.13.6 Groups

None.

3.4.4.13.7 Attribute Groups

None.

3.4.4.14 GetEntriesAndSetClean

The **GetEntriesAndSetClean** operation retrieves all entries for a persisted dictionary and sets the "dirty" value to **false**.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEntriesAndSetClean">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetClean"
message="tns:PersistedDictionaryService_GetEntriesAndSetClean_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetCleanResponse"
message="tns:PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetCleanAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetEntriesAndSetClean_AdminExceptionWCFFault_FaultMes
sage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetEntriesAndSetClean_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage** response message.

The protocol server MUST set the "dirty" value of the persisted dictionary to **false**.

3.4.4.14.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.14.1.1 PersistedDictionaryService_GetEntriesAndSetClean_InputMessage

The **PersistedDictionaryService_GetEntriesAndSetClean_InputMessage** request message initiates the operation to retrieve entries from, and to reset the "dirty" value for, a **persisted dictionary**.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
iesAndSetClean
```

The SOAP body MUST contain a **GetEntriesAndSetClean** element.

3.4.4.14.1.2 PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage

The **PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntriesAndSetClean_InputMessage** message. The **PersistedDictionaryService_GetEntriesAndSetClean_InputMessage** request message initiates the operation to retrieve all entries for a persisted dictionary and to set the "dirty" value to **false**.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
iesAndSetCleanResponse
```

The SOAP body MUST contain an **GetEntriesAndSetCleanResponse** element.

3.4.4.14.1.3 PersistedDictionaryService_GetEntriesAndSetClean_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetEntriesAndSetClean_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntriesAndSetClean_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
iesAndSetCleanAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.14.2 Elements

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

3.4.4.14.2.1 GetEntriesAndSetClean

The **GetEntriesAndSetClean** element contains input data for a **GetEntriesAndSetClean** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntriesAndSetClean">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.14.2.2 GetEntriesAndSetCleanResponse

The **GetEntriesAndSetCleanResponse** element contains result data for a **GetEntriesAndSetClean** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntriesAndSetCleanResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetEntriesAndSetCleanResult" nillable="true"
type="sco:ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetEntriesAndSetCleanResult: A collection of entries.

3.4.4.14.3 Complex Types

The following XML Schema complex type definitions are specific to this operation.

3.4.4.14.3.1 ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7

The following example shows the **ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7** complex type.

```
<xsd:complexType name="ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7">
  <xsd:sequence>
    <xsd:element name="list" nillable="true" type="scg:ArrayOfKeyValuePairOfstringstring" />
  </xsd:sequence>
</xsd:complexType>
```

list: An array of key/value pairs that represent the entries in the persisted dictionary.

3.4.4.14.4 Simple Types

None.

3.4.4.14.5 Attributes

None.

3.4.4.14.6 Groups

None.

3.4.4.14.7 Attribute Groups

None.

3.4.4.15 GetEntryKeys

The **GetEntryKeys** operation retrieves all entry keys for a persisted dictionary.

Release: July 16, 2012

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEntryKeys">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryKeys" message="tns:PersistedDictionaryService_GetEntryKeys_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryKeysResponse"
message="tns:PersistedDictionaryService_GetEntryKeys_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryKeysAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetEntryKeys_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetEntryKeys_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_GetEntryKeys_OutputMessage** response message.

3.4.4.15.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.15.1.1 PersistedDictionaryService_GetEntryKeys_InputMessage

The **PersistedDictionaryService_GetEntryKeys_InputMessage** request message initiates the operation to retrieve the persisted dictionary entry keys.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yKeys
```

The SOAP body MUST contain a **GetEntryKeys** element.

3.4.4.15.1.2 PersistedDictionaryService_GetEntryKeys_OutputMessage

The **PersistedDictionaryService_GetEntryKeys_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionary_GetEntryKeys_InputMessage**. The **PersistedDictionaryService_GetEntryKeys_InputMessage** request message initiates the operation to retrieve persisted dictionary entry keys.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yKeysResponse
```

The SOAP body MUST contain a **GetEntryKeysResponse** element.

3.4.4.15.1.3 PersistedDictionaryService_GetEntryKeys_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetEntryKeys_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntryKeys_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yKeysAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.15.2 Elements

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

3.4.4.15.2.1 GetEntryKeys

The **GetEntryKeys** element contains input data for a **GetEntryKeys** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryKeys">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.15.2.2 GetEntryKeysResponse

The **GetEntryKeysResponse** element contains result data for a **GetEntryKeys** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryKeysResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetEntryKeysResult" nillable="true"
type="msa:ArrayOfstring"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetEntryKeysResult: An array of entry keys.

3.4.4.15.3 Complex Types

None.

3.4.4.15.4 Simple Types

None.

3.4.4.15.5 Attributes

None.

3.4.4.15.6 Groups

None.

3.4.4.15.7 Attribute Groups

None.

3.4.4.16 GetEntryValue

The **GetEntryValue** operation retrieves a persisted dictionary entry value.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEntryValue">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValue" message="tns:PersistedDictionaryService_GetEntryValue_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValueResponse"
message="tns:PersistedDictionaryService_GetEntryValue_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValueAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetEntryValue_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetEntryValue_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_GetEntryValue_OutputMessage** response message.

3.4.4.16.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.16.1.1 PersistedDictionaryService_GetEntryValue_InputMessage

The **PersistedDictionaryService_GetEntryValue_InputMessage** request message initiates the operation to retrieve a persisted dictionary entry value.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValue
```

The SOAP body MUST contain a **GetEntryValue** element.

3.4.4.16.1.2   PersistedDictionaryService_GetEntryValue_OutputMessage

The **PersistedDictionaryService_GetEntryValue_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntryValue_InputMessage**. The **PersistedDictionaryService_GetEntryValue_InputMessage** initiates the operation to retrieve a persisted dictionary entry value.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValueResponse
```

The SOAP body MUST contain a **GetEntryValueResponse** element.

3.4.4.16.1.3   PersistedDictionaryService_GetEntryValue_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_GetEntryValue_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_GetEntryValue_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValueAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.16.2   Elements

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

3.4.4.16.2.1   GetEntryValue

The **GetEntryValue** element contains input data for a **GetEntryValue** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryValue">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="key" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

name: Name of a persisted dictionary.

key: The entry key to look up.

3.4.4.16.2.2   GetEntryValueResponse

The **GetEntryValueResponse** element contains result data for a **GetEntryValueResponse** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryValueResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetEntryValueResult" nillable="true"
type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetEntryValueResult: The persisted dictionary entry value.

3.4.4.16.3   Complex Types

None.

3.4.4.16.4   Simple Types

None.

3.4.4.16.5   Attributes

None.

3.4.4.16.6   Groups

None.

3.4.4.16.7   Attribute Groups

None.

3.4.4.17   GetEntryValues

The **GetEntryValues** operation retrieves all entry values for a persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEntryValues">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValues" message="tns:PersistedDictionaryService_GetEntryValues_InputMessage"/>
```

```
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValuesResponse"
message="tns:PersistedDictionaryService_GetEntryValues_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValuesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_GetEntryValues_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_GetEntryValues_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
PersistedDictionaryService_GetEntryValues_OutputMessage response message.

3.4.4.17.1   Messages

The following WSDL message definitions are specific to this operation.

3.4.4.17.1.1   PersistedDictionaryService_GetEntryValues_InputMessage

The **PersistedDictionaryService_GetEntryValues_InputMessage** request message initiates the
retrieval of all entry values for a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValues
```

The SOAP body MUST contain a **GetEntryValues** element.

3.4.4.17.1.2   PersistedDictionaryService_GetEntryValues_OutputMessage

The **PersistedDictionaryService_GetEntryValues_OutputMessage** response message is sent in
reply to the request that is initiated by the
PersistedDictionaryService_GetEntryValues_InputMessage message. The
PersistedDictionaryService_GetEntryValues_InputMessage message initiates the operation to
retrieve all entry values for a **persisted dictionary**.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValuesResponse
```

The SOAP body MUST contain a **GetEntryValuesResponse** element.

3.4.4.17.1.3
PersistedDictionaryService_GetEntryValues_AdminExceptionWCFFault_FaultMess
age

The **PersistedDictionaryService_GetEntryValues_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
PersistedDictionaryService_GetEntryValues_InputMessage message. The protocol server
MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/GetEntr
yValuesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.17.2   Elements

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

3.4.4.17.2.1   GetEntryValues

The **GetEntryValues** element contains input data for a **GetEntryValues** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryValues">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.17.2.2   GetEntryValuesResponse

The **GetEntryValuesResponse** element contains result data for a **GetEntryValues** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEntryValuesResponse">
<xsd:complexType>
<xsd:sequence>
<xsd:element minOccurs="0" name="GetEntryValuesResult" nillable="true"
type="msa:ArrayOfstring"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
```

GetEntryValuesResult: An array of entry values.

3.4.4.17.3   Complex Types

None.

3.4.4.17.4   Simple Types

None.

3.4.4.17.5 Attributes

None.

3.4.4.17.6 Groups

None.

3.4.4.17.7 Attribute Groups

None.

3.4.4.18 IsDirty

The **IsDirty** operation checks whether the "dirty" value is set on a persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="IsDirty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirty" message="tns:PersistedDictionaryService_IsDirty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirtyResponse" message="tns:PersistedDictionaryService_IsDirty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirtyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_IsDirty_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_IsDirty_OutputMessage** response message.

3.4.4.18.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.18.1.1 PersistedDictionaryService_IsDirty_InputMessage

The **PersistedDictionaryService_IsDirty_InputMessage** request message initiates the operation to retrieve the "dirty" value for a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/IsDirty
```

The SOAP body MUST contain an **IsDirty** element.

3.4.4.18.1.2 PersistedDictionaryService_IsDirty_OutputMessage

The **PersistedDictionaryService_IsDirty_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_IsDirty_InputMessage**

message. The **PersistedDictionaryService_IsDirty_InputMessage** message initiates the operation to retrieve the "dirty" value for a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/IsDirty
Response
```

The SOAP body MUST contain an **IsDirtyResponse** element.

3.4.4.18.1.3 PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_IsDirty_InputMessage** message. The **PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/IsDirty
AdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.18.2 Elements

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

3.4.4.18.2.1 IsDirty

The **IsDirty** element contains input data for an **IsDirty** operation.

The following example specifies the structure of this element.

```
<xsd:element name="IsDirty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.18.2.2 IsDirtyResponse

The **IsDirtyResponse** element contains result data for an **IsDirty** operation.

The following example specifies the structure of this element.

```
<xsd:element name="IsDirtyResponse">
```

```
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="IsDirtyResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

IsDirtyResult: The value is **true** if the "dirty" value for the persisted dictionary is set; otherwise, the value is **false**.

3.4.4.18.3 Complex Types

None.

3.4.4.18.4 Simple Types

None.

3.4.4.18.5 Attributes

None.

3.4.4.18.6 Groups

None.

3.4.4.18.7 Attribute Groups

None.

3.4.4.19 Remove

The **Remove** operation permanently deletes a persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="Remove">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Remove" message="tns:PersistedDictionaryService_Remove_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveResponse" message="tns:PersistedDictionaryService_Remove_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_Remove_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_Remove_OutputMessage** response message.

3.4.4.19.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.19.1.1 PersistedDictionaryService_Remove_InputMessage

The **PersistedDictionaryService_Remove_InputMessage** request message initiates the removal of a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/Remove
```

The SOAP body MUST contain a **Remove** element.

3.4.4.19.1.2 PersistedDictionaryService_Remove_OutputMessage

The **PersistedDictionaryService_Remove_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Remove_InputMessage** message. The **PersistedDictionaryService_Remove_InputMessage** initiates the operation to delete a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveR
esponse
```

The SOAP body MUST contain a **RemoveResponse** element.

3.4.4.19.1.3 PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_Remove_InputMessage** message. The **PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.19.2 Elements

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

3.4.4.19.2.1 Remove

The **Remove** element contains input data for a **Remove** operation.

The following example specifies the structure of this element.

```xsd
<xsd:element name="Remove">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.19.2.2   RemoveResponse

The **RemoveResponse** element contains result data for a **Remove** operation.

The following example specifies the structure of this element.

```xsd
<xsd:element name="RemoveResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveResult: The value is **true** if the persisted dictionary could be deleted; otherwise, the value is **false**.

3.4.4.19.3   Complex Types

None.

3.4.4.19.4   Simple Types

None.

3.4.4.19.5   Attributes

None.

3.4.4.19.6   Groups

None.

3.4.4.19.7   Attribute Groups

None.

3.4.4.20   RemoveAll

The **RemoveAll** operation permanently deletes all persisted dictionaries.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveAll">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAll" message="tns:PersistedDictionaryService_RemoveAll_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAllResponse" message="tns:PersistedDictionaryService_RemoveAll_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAllAdminExceptionWCFFault" name="AdminExceptionWCFFault"
  message="tns:PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_RemoveAll_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
PersistedDictionaryService_RemoveAll_OutputMessage response message.

3.4.4.20.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.20.1.1 PersistedDictionaryService_RemoveAll_InputMessage

The **PersistedDictionaryService_RemoveAll_InputMessage** request message initiates the
removal of all persisted dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveA
ll
```

The SOAP body MUST contain a **RemoveAll** element.

3.4.4.20.1.2 PersistedDictionaryService_RemoveAll_OutputMessage

The **PersistedDictionaryService_RemoveAll_OutputMessage** response message is sent in reply
to the request that is initiated by the **PersistedDictionaryService_RemoveAll_InputMessage**
message. The **PersistedDictionaryService_RemoveAll_InputMessage** request initiates the
operation to delete all persisted dictionaries.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveA
llResponse
```

The SOAP body MUST contain a **RemoveAllResponse** element.

3.4.4.20.1.3 PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
PersistedDictionaryService_RemoveAll_InputMessage. The

PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveAllAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.20.2   Elements

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

3.4.4.20.2.1   RemoveAll

The **RemoveAll** element contains input data for a **RemoveAll** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveAll">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.20.2.2   RemoveAllResponse

The **RemoveAllResponse** element contains result data for a **RemoveAll** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveAllResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.20.3   Complex Types

None.

3.4.4.20.4   Simple Types

None.

3.4.4.20.5   Attributes

None.

3.4.4.20.6 Groups

None.

3.4.4.20.7 Attribute Groups

None.

3.4.4.21 RemoveEntry

The **RemoveEntry** operation permanently deletes a persisted dictionary entry.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveEntry">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntry" message="tns:PersistedDictionaryService_RemoveEntry_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryResponse"
message="tns:PersistedDictionaryService_RemoveEntry_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_RemoveEntry_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **PersistedDictionaryService_RemoveEntry_OutputMessage** response message.

The protocol server MUST set the "dirty" value of the persisted dictionary to "true".

3.4.4.21.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.21.1.1 PersistedDictionaryService_RemoveEntry_InputMessage

The **PersistedDictionaryService_RemoveEntry_InputMessage** request message initiates the
removal of a persisted dictionary entry.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService_RemoveE
ntry
```

The SOAP body MUST contain a **RemoveEntry** element.

3.4.4.21.1.2 PersistedDictionaryService_RemoveEntry_OutputMessage

The **PersistedDictionaryService_RemoveEntry_OutputMessage** response message is sent in
reply to the request that is initiated by the
PersistedDictionaryService_RemoveEntry_InputMessage message. The

PersistedDictionaryService_RemoveEntry_InputMessage message initiates the operation to delete a persisted dictionary entry.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PeristedDictionaryService/RemoveEn
tryResponse
```

The SOAP body MUST contain a **RemoveEntryResponse** element.

3.4.4.21.1.3 PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionary_RemoveEntry_InputMessage message**. The **PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/RemoveE
ntryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.21.2 Elements

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

3.4.4.21.2.1 RemoveEntry

The **RemoveEntry** element contains input data for a **RemoveEntry** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveEntry">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="entry" type="scg:KeyValuePairOfstringstring"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

entry: The entry to delete.

3.4.4.21.2.2 RemoveEntryResponse

The **RemoveEntryResponse** element contains result data for a **RemoveEntry** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveEntryResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveEntryResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveEntryResult: The value is **true** if the entry was deleted; otherwise, the value is **false**.

3.4.4.21.3 Complex Types

None.

3.4.4.21.4 Simple Types

None.

3.4.4.21.5 Attributes

None.

3.4.4.21.6 Groups

None.

3.4.4.21.7 Attribute Groups

None.

3.4.4.22 SetDirty

The **SetDirty** operation sets the "dirty" value on a persisted dictionary.

The following example specifies the structure of this operation.

```
<wsdl:operation name="SetDirty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirty" message="tns:PersistedDictionaryService_SetDirty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirtyResponse" message="tns:PersistedDictionaryService_SetDirty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirtyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_SetDirty_InputMessage** request message. On successful completion, the protocol server MUST respond with a **PersistedDictionaryService_SetDirty_OutputMessage** response message.

3.4.4.22.1 Messages

The following WSDL message definitions are specific to this operation.

3.4.4.22.1.1 PersistedDictionaryService_SetDirty_InputMessage

The **PersistedDictionaryService_SetDirty_InputMessage** request message initiates the setting of the "dirty" value for a persisted dictionary.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetDirt
y
```

The SOAP body MUST contain a **SetDirty** element.

3.4.4.22.1.2 PersistedDictionaryService_SetDirty_OutputMessage

The **PersistedDictionaryService_SetDirty_OutputMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_SetDirty_InputMessage** message. The **PersistedDictionaryService_SetDirty_OutputMessage** message initiates the operation to set the "dirty" value for a persisted dictionary.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetDirt
yResponse
```

The SOAP body MUST contain a **SetDirtyResponse** element.

3.4.4.22.1.3 PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionary_SetDirty_InputMessage** message. The **PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetDirt
yAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.22.2 Elements

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

3.4.4.22.2.1 SetDirty

The **SetDirty** element contains input data for a **SetDirty** operation.

The following example specifies the structure of this element.

```xsd
<xsd:element name="SetDirty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

3.4.4.22.2.2   SetDirtyResponse

The **SetDirtyResponse** element contains result data for a **SetDirty** operation.

The following example specifies the structure of this element.

```xsd
<xsd:element name="SetDirtyResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.22.3   Complex Types

None.

3.4.4.22.4   Simple Types

None.

3.4.4.22.5   Attributes

None.

3.4.4.22.6   Groups

None.

3.4.4.22.7   Attribute Groups

None.

3.4.4.23   SetEntryValue

The **SetEntryValue** operation sets a persisted dictionary entry value.

The following example specifies the structure of this operation.

```wsdl
<wsdl:operation name="SetEntryValue">
```

```
   <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetEntryValue" message="tns:PersistedDictionaryService_SetEntryValue_InputMessage"/>
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetEntryValueResponse"
message="tns:PersistedDictionaryService_SetEntryValue_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetEntryValueAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **PersistedDictionaryService_SetEntryValue_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
PersistedDictionaryService_SetEntryValue_OutputMessage response message.

The protocol server MUST set the "dirty" value of the persisted dictionary to **true**.

3.4.4.23.1   Messages

The following WSDL message definitions are specific to this operation.

3.4.4.23.1.1   PersistedDictionaryService_SetEntryValue_InputMessage

The **PersistedDictionaryService_SetEntryValue_InputMessage** request message initiates the
setting of a persisted dictionary entry value.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetEntr
yValue
```

The SOAP body MUST contain a **SetEntryValue** element.

3.4.4.23.1.2   PersistedDictionaryService_SetEntryValue_OutputMessage

The **PersistedDictionaryService_SetEntryValue_OutputMessage** response message is sent in
reply to the request that is initiated by the
PersistedDictionaryService_SetEntryValue_InputMessage member. The
PersistedDictionaryService_SetEntryValue_InputMessage message initiates the operation to
set a persisted dictionary entry value.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetEntr
yValueResponse
```

The SOAP body MUST contain a **SetEntryValueResponse** element.

3.4.4.23.1.3 PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage

The **PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **PersistedDictionaryService_SetEntryValue_InputMessage** message. The **PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionaryService/SetEntr
yValueAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.4.4.23.2 Elements

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

3.4.4.23.2.1 SetEntryValue

The **SetEntryValue** element contains input data for a **SetEntryValue** operation.

The following example specifies the structure of this element.

```
<xsd:element name="SetEntryValue">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="key" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="value" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a persisted dictionary.

key: The entry key.

value: The entry value.

3.4.4.23.2.2 SetEntryValueResponse

The **SetEntryValueResponse** element contains result data for a **SetEntryValue** operation.

The following example specifies the structure of this element.

```
<xsd:element name="SetEntryValueResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.4.4.23.3 Complex Types

None.

3.4.4.23.4 Simple Types

None.

3.4.4.23.5 Attributes

None.

3.4.4.23.6 Groups

None.

3.4.4.23.7 Attribute Groups

None.

3.4.5 Timer Events

None.

3.4.6 Other Local Events

None.

3.5 LinguisticManagerService Server Details

This service provides an operation for retrieval of a **LinguisticType**

3.5.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The LinguisticManagerService maintains a list of the following:

- **Spell-check identifier:** An identifier of an existing spell-checker. The identifier consists of a name and a language. For each spell-check identifier the LinguisticManagerService also keeps the unique name of the spell-checker exclusion list.

- **Property extractor identifiers:** An identifier of an existing property extractor. The identifier consists of a name and language. For each property extractor identifier the LinguisticManagerService also keeps the unique name of the property extraction exclusion list and property extraction inclusion list.

- **LinguisticType:** A value that is associated with spell-check identifiers and property extractor identifiers and that determines if the identifier is a spell-check identifier or a property extraction

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identifier. Spell-check identifiers MUST have the **LinguisticType** value "SPELLCHECKING"; property extractor identifiers MUST have the value "ENTITYEXTRACTION".

The protocol server does not provide operations to modify the lists of spell-check identifiers and property extractor identifiers or the elements of these lists. These lists and their elements are determined by the spell-checkers and property extractors that exist in the search system.

3.5.2 Timers

None.

3.5.3 Initialization

None.

3.5.4 Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
GetType	Retrieves a **LinguisticType** value of a spell-check identifier or property extractor identifier.

3.5.4.1 GetType

The **GetType** operation retrieves the value of type **LinguisticType** belonging to a spell-check identifier or property extractor identifier.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetType">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetType" message="tns:LinguisticManagerService_GetType_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetTypeResponse" message="tns:LinguisticManagerService_GetType_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetTypeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **LinguisticManagerService_GetType_InputMessage** request message. On successful completion, the protocol server MUST respond with a **LinguisticManagerService_GetType_OutputMessage** response message.

3.5.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.5.4.1.1.1 LinguisticManagerService_GetType_InputMessage

The **LinguisticManagerService_GetType_InputMessage** request message initiates the retrieval of a **LinguisticType**.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerService/GetType
```

The SOAP body MUST contain a **GetType** element.

3.5.4.1.1.2 LinguisticManagerService_GetType_OutputMessage

The **LinguisticManagerService_GetType_OutputMessage** response message is sent in reply to the request that is initiated by the **LinguisticManagerService_GetType_InputMessage** message. The **LinguisticManagerService_GetType_InputMessage** message initiates the operation to retrieve a **LinguisticType** type value.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerService/GetTypeRe
sposne
```

The SOAP body MUST contain a **GetTypeResponse** element.

3.5.4.1.1.3 LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage

The **LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **LinguisticManagerService_GetType_InputMessage** message. The **LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerService/GetTypeAd
minExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.5.4.1.2 Elements

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

3.5.4.1.2.1 GetType

The **GetType** element contains input data for a **GetType** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetType">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="fullName" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
```

```
        </xsd:element>
```

fullName: The name of a spell-check identifier or property extractor identifier.

3.5.4.1.2.2 GetTypeResponse

The **GetTypeResponse** element contains result data for a **GetType** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetTypeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetTypeResult" type="tns:LinguisticType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetTypeResult: The **LinguisticType** value of the given spell-check identifier or property extractor identifier. If the **fullName** is not recognized as a spell-check identifier or property extractor identifier, the protocol server MUST return the **LinguisticType** UNKNOWN.

3.5.4.1.3 Complex Types

None.

3.5.4.1.4 Simple Types

None.

3.5.4.1.5 Attributes

None.

3.5.4.1.6 Groups

None.

3.5.4.1.7 Attribute Groups

None.

3.5.5 Timer Events

None.

3.5.6 Other Local Events

None.

3.6 CompiledDictionaryService Server Details

This service provides an operation for creating a compiled dictionary.

3.6.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The **CompiledDictionaryService** is responsible for creating an XML dictionary file representation of a set of string key/value pairs. The XML dictionary file representation is specified in [MS-FSLRDS] section 2.2. In addition, the **CompiledDictionaryService** MUST upload the XML dictionary file to a predefined location by using Resource Storage Protocol, as specified in [MS-FSRS]. The XML dictionary file MUST be uploaded to a predefined location in order for other search components, which use the XML dictionary file, to download them.

The **CompiledDictionaryService** is stateless.

3.6.2 Timers

None.

3.6.3 Initialization

None.

3.6.4 Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
CreateCompiledDictionary	Creates an XML dictionary file representation of a set of string key/value pairs, and uploads the XML dictionary file representation to a predefined location.

3.6.4.1 CreateCompiledDictionary

The following example shows the **CreateCompiledDictionary** operation.

```
 <wsdl:operation name="CreateCompiledDictionary">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionary"
message="tns:CompiledDictionaryService_CreateCompiledDictionary_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionaryResponse"
message="tns:CompiledDictionaryService_CreateCompiledDictionary_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionaryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault_FaultM
essage" />
</wsdl:operation>
```

The protocol client MUST send a
CompiledDictionaryService_CreateCompiledDictionary_InputMessage request message. On successful completion, the protocol server MUST respond with a
CompiledDictionaryService_CreateCompiledDictionary_OutputMessage response message.

The protocol server MUST use the upload operation, as specified in [MS-FSRS], to upload the XML dictionary file to the protocol server, as specified in [MS-FSRS].

3.6.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.6.4.1.1.1 CompiledDictionaryService_CreateCompiledDictionary_InputMessage

The **CompiledDictionaryService_CreateCompiledDictionary_InputMessage** request message initiates the creation of an XML dictionary file representation of an array of key/value pairs of string.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionaryService/CreateCo
mpiledDictionary
```

The SOAP body MUST contain a **CreateCompiledDictionary** element.

3.6.4.1.1.2 CompiledDictionaryService_CreateCompiledDictionary_OutputMessage

The **CompiledDictionaryService_CreateCompiledDictionary_OutputMessage** response message is sent in reply to the request that is initiated by the
CompiledDictionaryService_CreateCompiledDictionary_InputMessage message. The
CompiledDictionaryService_CreateCompiledDictionary_InputMessage message initiates the operation to create a XML dictionary file representation of an array of key/value pairs of string.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionaryService/CreateCo
mpiledDictionaryResponse
```

The SOAP body MUST contain a **CreateCompiledDictionaryResponse** element.

3.6.4.1.1.3 CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault _FaultMessage

The
CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault_FaultMe ssage response message is sent in reply to the request that is initiated by the
CompiledDictionaryService_CreateCompiledDictionary_InputMessage message. The
CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault_FaultMe ssage message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionaryService/CreateCo
mpiledDictionaryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.6.4.1.2 Elements

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

3.6.4.1.2.1 CreateCompiledDictionary

The **CreateCompiledDictionary** element contains input data for a **CreateCompiledDictionary** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CreateCompiledDictionary">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="input" nillable="true"
type="scg:ArrayOfKeyValuePairOfstringstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name that is used for the XML dictionary file representation. The protocol server MUST append the "xml" extension to the file name when uploading the file to the resource storage.

input: The string key-value pairs that are used to create the XML dictionary file representation.

3.6.4.1.2.2 CreateCompiledDictionaryResponse

The **CreateCompiledDictionaryResponse** element contains result data for a **CreateCompiledDictionary** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CreateCompiledDictionaryResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCompiledDictionaryResult" nillable="true"
type="xsd:anyURI" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateCompiledDictionaryResult: The URI of the XML dictionary file representation of the input.

3.6.4.1.3 Complex Types

None.

3.6.4.1.4 Simple Types

None.

3.6.4.1.5 Attributes

None.

3.6.4.1.6 Groups

None.

3.6.4.1.7 Attribute Groups

None.

3.6.5 Timer Events

None.

3.6.6 Other Local Events

None.

3.7 ContentCollectionService Server Details

3.7.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The **ContentCollectionService** protocol server is responsible for managing content collections in a search system. The protocol server is to maintain a minimum of state and only propagate configuration information to other search components.

The protocol server MUST use several other protocols to propagate content collection information in the system. More specifically, the protocol server MUST use the following protocols to perform this task:

- Configuration Protocol, as specified in [MS-FSCMW].

- Indexer Administration and Status Protocol, as specified in [MS-FSIADM].

- Content Feeding Protocol, as specified in [MS-FSCF].

All these protocols are based on the Middleware Protocol, as specified in [MS-FSMW].

The **ContentCollectionService** is stateless.

3.7.2 Timers

None.

3.7.3 Initialization

None.

3.7.4 Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
AddCollection	Adds a content collection.
GetCollection	Retrieves information about a content collection.
GetAllCollections	Retrieves information about all content collections.
ModifyCollection	Modifies a content collection.
GetAllPipelines	Retrieves implementation-specific constants.
DeleteCollection	Deletes a content collection.
ClearCollection	Deletes all items in a content collection.

3.7.4.1 AddCollection

The **AddCollection** operation creates a new content collection.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollection" message="tns:ContentCollectionService_AddCollection_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollectionResponse" message="tns:ContentCollectionService_AddCollection_OutputMessage"
/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_AddCollection_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
ContentCollectionService_AddCollection_OutputMessage response message.

3.7.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.1.1.1 ContentCollectionService_AddCollection_InputMessage

The **ContentCollectionService_AddCollection_InputMessage** request message initiates the
addition of a content collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/AddCollec
tion
```

The SOAP body MUST contain an **AddCollection** element.

3.7.4.1.1.2   ContentCollectionService_AddCollection_OutputMessage

The **ContentCollectionService_AddCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_AddCollection_InputMessage** message. The **ContentCollectionService_AddCollection_InputMessage** message initiates the operation to add a content collection.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/AddCollec
tionResponse
```

The SOAP body MUST contain an **AddCollectionResponse** element.

3.7.4.1.1.3   ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_AddCollection_InputMessage** message. The **ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/AddCollec
tionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.1.2   Elements

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

3.7.4.1.2.1   AddCollection

The **AddCollection** element contains input data for an **AddCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="collection" nillable="true"
type="tns:ContentCollectionDTO" />
```

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

collection: The content collection to add. This element MUST be present and it MUST NOT be **null**. The **Name** element of the content collection MUST be set to a name that does not already exist as a content collection name. If the **Pipeline** element of the content collection is included, it MUST have the value "Office14 (webcluster)".

3.7.4.1.2.2 AddCollectionResponse

The **AddCollectionResponse** element contains result data for an **AddCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddCollectionResult" nillable="true"
type="tns:ContentCollectionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddCollectionResult: The content collection that was added. The following elements of the content collection MUST be set by the protocol server:

- **Pipeline:** MUST be set to "Office14 (webcluster)".

- **NumDocs:** MUST be set to 0.

- **Create** and **Cleared** MUST be set to the date and time at which the content collection was created, in UTC.

3.7.4.1.3 Complex Types

None.

3.7.4.1.4 Simple Types

None.

3.7.4.1.5 Attributes

None.

3.7.4.1.6 Groups

None.

3.7.4.1.7 Attribute Groups

None.

3.7.4.2 GetCollection

The **GetCollection** operation retrieves a content collection.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetCollection" message="tns:ContentCollectionService_GetCollection_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetCollectionResponse" message="tns:ContentCollectionService_GetCollection_OutputMessage"
/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_GetCollection_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_GetCollection_InputMessage** request message. On successful completion, the protocol server MUST respond with a **ContentCollectionService_GetCollection_OutputMessage** response message.

3.7.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.2.1.1 ContentCollectionService_GetCollection_InputMessage

The **ContentCollectionService_GetCollection_InputMessage** request message initiates the retrieval of a content collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetCollec
tion
```

The SOAP body MUST contain a **GetCollection** element.

3.7.4.2.1.2 ContentCollectionService_GetCollection_OutputMessage

The **ContentCollectionService_GetCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_GetCollection_InputMessage** message. The **ContentCollectionService_GetCollection_InputMessage** message initiates the operation to retrieve a content collection

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetCollec
tionResponse
```

The SOAP body MUST contain a **GetCollectionResponse** element.

3.7.4.2.1.3 ContentCollectionService_GetCollection_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_GetCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_GetCollection_InputMessage** message. The **ContentCollectionService_GetCollection_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetCollec
tionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.2.2 Elements

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

3.7.4.2.2.1 GetCollection

The **GetCollection** element contains input data for a **GetCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a content collection. This element MUST be present, it MUST NOT be **null**, and it MUST be the name of an existing content collection.

3.7.4.2.2.2 GetCollectionResponse

The **GetCollectionResponse** element contains result data for a **GetCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetCollectionResult" nillable="true"
type="tns:ContentCollectionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetCollectionResult: A content collection. The protocol server MUST include the following elements in the content collection that is returned:

- **Cleared:** MUST be set to the date and time at which the content collection was last cleared, in UTC.

- **Created:** MUST be set to the date and time at which the content collection was created, in UTC.

- **Description:** MUST be set to the description of the content collection, or **null** if no description is set.

- **LastInput:** MUST be set to the value that was returned by the **GetLastInputTime** operation of the Indexer Administration and Status Protocol, as specified in [MS-FSIADM].

- **Name:** MUST equal the name that was specified by the **GetCollection** input message.

- **NumDocs:** MUST be set to the value that was returned by the **GetNumDocsInCollection** operation of the Indexer Administration and Status Protocol, as specified in [MS-FSIADM].

- **Pipeline:** MUST be set to "Office14 (webcluster)".

3.7.4.2.3 Complex Types

None.

3.7.4.2.4 Simple Types

None.

3.7.4.2.5 Attributes

None.

3.7.4.2.6 Groups

None.

3.7.4.2.7 Attribute Groups

None.

3.7.4.3 GetAllCollections

The **GetAllCollections** operation retrieves all content collections.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAllCollections">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllCollections" message="tns:ContentCollectionService_GetAllCollections_InputMessage"
/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllCollectionsResponse"
message="tns:ContentCollectionService_GetAllCollections_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllCollectionsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
```

```
message="tns:ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage"
 />
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_GetAllCollections_InputMessage** request message. On successful completion, the protocol server MUST respond with a **ContentCollectionService_GetAllCollections_OutputMessage** response message.

3.7.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.3.1.1   ContentCollectionService_GetAllCollections_InputMessage

The **ContentCollectionService_GetAllCollections_InputMessage** request message initiates the retrieval of all content collections.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllCol
lections
```

The SOAP body MUST contain a **GetAllCollections** element.

3.7.4.3.1.2   ContentCollectionService_GetAllCollections_OutputMessage

The **ContentCollectionService_GetAllCollections_OutputMessage** response message that is sent in reply to the request that is initiated by the **ContentCollectionService_GetAllCollections_InputMessage** message. The **ContentCollectionService_GetAllCollections_InputMessage** message initiates the operation to retrieve all content collections.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllCol
lectionsResponse
```

The SOAP body MUST contain a **GetAllCollectionsResponse** element.

3.7.4.3.1.3   ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_GetAllCollections_InputMessage** message. The **ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllCol
lectionsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.3.2   Elements

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

3.7.4.3.2.1   GetAllCollections

The **GetAllCollections** element contains input data for a **GetAllCollections** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllCollections">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.7.4.3.2.2   GetAllCollectionsResponse

The **GetAllCollectionsResponse** element contains result data for a **GetAllCollections** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllCollectionsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllCollectionsResult" nillable="true"
type="tns:ArrayOfContentCollectionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllCollectionsResult: An array containing all the content collections. The protocol server MUST return the same set of content collections that are returned by the **GetCollectionList** operation of the Configuration Middleware Protocol, as specified in [MS-FSCMW]. Each content collection MUST include the information specified in section 3.7.4.2.2.2.

3.7.4.3.3   Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.7.4.3.3.1   ArrayOfContentCollectionDTO

The **ArrayOfContentCollectionDTO** represents a collection of content collections.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfContentCollectionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="ContentCollectionDTO"
nillable="true" type="tns:ContentCollectionDTO" />
  </xsd:sequence>
</xsd:complexType>
```

ContentCollectionDTO: A content collection.

3.7.4.3.4 Simple Types

None.

3.7.4.3.5 Attributes

None.

3.7.4.3.6 Groups

None.

3.7.4.3.7 Attribute Groups

None.

3.7.4.4 ModifyCollection

The **ModifyCollection** operation modifies a content collection.

The following example specifies the structure of this operation.

```
<wsdl:operation name="ModifyCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ModifyCollection" message="tns:ContentCollectionService_ModifyCollection_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ModifyCollectionResponse"
message="tns:ContentCollectionService_ModifyCollection_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ModifyCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_ModifyCollection_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
ContentCollectionService_ModifyCollection_OutputMessage response message.

3.7.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.4.1.1 ContentCollectionService_ModifyCollection_InputMessage

The **ContentCollectionService_ModifyCollection_InputMessage** request message initiates the modification of a content collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ModifyCol
lection
```

The SOAP body MUST contain a **ModifyCollection** element.

3.7.4.4.1.2 ContentCollectionService_ModifyCollection_OutputMessage

The **ContentCollectionService_ModifyCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_ModifyCollection_InputMessage** message. The **ContentCollectionService_ModifyCollection_InputMessage** message initiates the operation to modify a content collection.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ModifyCol
lectionResponse
```

The SOAP body MUST contain a **ModifyCollectionResponse** element.

3.7.4.4.1.3 ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_ModifyCollection_InputMessage** message. The **ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ModifyCol
lectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.4.2 Elements

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

3.7.4.4.2.1 ModifyCollection

The **ModifyCollection** element contains input data for a **ModifyCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ModifyCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="collection" nillable="true"
type="tns:ContentCollectionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

collection: The content collection to modify. This element MUST be present and it MUST NOT be **null**. The following elements MUST be present in the content collection:

- **Name:** MUST contain the value of an existing content collection to update.

- **Pipeline:** MUST contain the value "Office 14 (webcluster)".

- **Description:** MUST contain a description of the content collection.

- **Cleared:** MUST contain a time and date, in UTC.

The protocol server MUST call the **UpdateCollection** operation of the Configuration Middleware Protocol, as specified in [MS-FSCMW], with these values for the **Name**, **Pipeline**, **Description** and **Cleared** parameters.

3.7.4.4.2 ModifyCollectionResponse

The **ModifyCollectionResponse** element contains result data for a **ModifyCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ModifyCollectionResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.7.4.4.3 Complex Types

None.

3.7.4.4.4 Simple Types

None.

3.7.4.4.5 Attributes

None.

3.7.4.4.6 Groups

None.

3.7.4.4.7 Attribute Groups

None.

3.7.4.5 GetAllPipelines

The **GetAllPipelines** operation retrieves an array that contains two string constants. This operation is implementation specific.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetAllPipelines">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllPipelines" message="tns:ContentCollectionService_GetAllPipelines_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllPipelinesResponse"
message="tns:ContentCollectionService_GetAllPipelines_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetAllPipelinesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_GetAllPipelines_InputMessage** request message. On successful completion, the protocol server MUST respond with a **ContentCollectionService_GetAllPipelines_OutputMessage** response message.

3.7.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.5.1.1 ContentCollectionService_GetAllPipelines_InputMessage

The **ContentCollectionService_GetAllPipelines_InputMessage** request message initiates the operation to retrieve the implementation-specific string constants.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllPip
elines
```

The SOAP body MUST contain a **GetAllPipelines** element.

3.7.4.5.1.2 ContentCollectionService_GetAllPipelines_OutputMessage

The **ContentCollectionService_GetAllPipelines_OutputMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_GetAllPipelines_InputMessage** message. The **ContentCollectionService_GetAllPipelines_InputMessage** message initiates the operation to retrieve the implementation-specific constants.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllPip
elinesResponse
```

The SOAP body MUST contain a **GetAllPipelinesResponse** element.

3.7.4.5.1.3 ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_GetAllPipelines_InputMessage** message. The **ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/GetAllPip
elinesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.5.2 Elements

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

3.7.4.5.2.1 GetAllPipelines

The **GetAllPipelines** element contains input data for a **GetAllPipelines** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllPipelines">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.7.4.5.2.2 GetAllPipelinesResponse

The **GetAllPipelinesResponse** element contains result data for a **GetAllPipelines** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetAllPipelinesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllPipelinesResult" nillable="true"
type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
```

```
</xsd:element>
```

GetAllPipelinesResult: An array that MUST contain the two string constants "Office14 (webcluster)" and "Attachments (webcluster)".

3.7.4.5.3 Complex Types

None.

3.7.4.5.4 Simple Types

None.

3.7.4.5.5 Attributes

None.

3.7.4.5.6 Groups

None.

3.7.4.5.7 Attribute Groups

None.

3.7.4.6 DeleteCollection

The **DeleteCollection** operation deletes a content collection and all its items from the index of the search system

The following example specifies the structure of this operation.

```
<wsdl:operation name="DeleteCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollection" message="tns:ContentCollectionService_DeleteCollection_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollectionResponse"
message="tns:ContentCollectionService_DeleteCollection_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_DeleteCollection_InputMessage** request message. On successful completion, the protocol server MUST respond with a **ContentCollectionService_DeleteCollection_OutputMessage** response message.

3.7.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.6.1.1 ContentCollectionService_DeleteCollection_InputMessage

The **ContentCollectionService_DeleteCollection_InputMessage** request message initiates the deletion of a content collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/DeleteCol
lection
```

The SOAP body MUST contain a **DeleteCollection** element.

3.7.4.6.1.2 ContentCollectionService_DeleteCollection_OutputMessage

The **ContentCollectionService_DeleteCollection_OutputMessage** response message in reply to the request that is initiated by the **ContentCollectionService_DeleteCollection_InputMessage** message. The **ContentCollectionService_DeleteCollection_OutputMessage** message initiates the operation to delete a content collection.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/DeleteCol
lectionResponse
```

The SOAP body MUST contain a **DeleteCollectionResponse** element.

3.7.4.6.1.3 ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_DeleteCollection_InputMessage** message. The **ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/DeleteCol
lectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.6.2 Elements

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

3.7.4.6.2.1 DeleteCollection

The **DeleteCollection** element contains input data for a **DeleteCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DeleteCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: Name of a content collection. This MUST be the name of an existing content collection.

After the receipt of the **DeleteCollection** message, the protocol server MUST perform the following operations to propagate the deletion throughout the search system:

1. Call **SuspendFeeding** by using the Content Feeding Protocol, as specified in [MS-FSCF].

2. Call **ClearCollection** by using the Content Feeding Protocol, as specified in [MS-FSCF].

3. Call **RemoveCollection** by using the Configuration Middleware Protocol, as specified in [MS-FSCMW].

4. Call **ResumeFeeding** by using the Content Feeding Protocol, as specified in [MS-FSCF].

3.7.4.6.2.2 DeleteCollectionResponse

The **DeleteCollectionResponse** element contains result data for a **DeleteCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DeleteCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="DeleteCollectionResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DeleteCollectionResult: The value is **true** if the content collection was deleted; otherwise, the value is **false**.

3.7.4.6.3 Complex Types

None.

3.7.4.6.4 Simple Types

None.

3.7.4.6.5 Attributes

None.

3.7.4.6.6 Groups

None.

3.7.4.6.7 Attribute Groups

None.

3.7.4.7 ClearCollection

The **ClearCollection** operation deletes all items in a content collection from the index of the search system.

The following example specifies the structure of this operation.

```
<wsdl:operation name="ClearCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollection" message="tns:ContentCollectionService_ClearCollection_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollectionResponse"
message="tns:ContentCollectionService_ClearCollection_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **ContentCollectionService_ClearCollection_InputMessage** request message. On successful completion, the protocol server MUST respond with a **ContentCollectionService_ClearCollection_OutputMessage** response message.

3.7.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.7.4.7.1.1 ContentCollectionService_ClearCollection_InputMessage

The **ContentCollectionService_ClearCollection_InputMessage** request message initiates the removal of all documents in a content collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ClearColl
ection
```

The SOAP body MUST contain a **ClearCollection** element.

3.7.4.7.1.2 ContentCollectionService_ClearCollection_OutputMessage

The **ContentCollectionService_ClearCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_ClearCollection_InputMessage** message. The **ContentCollectionService_ClearCollection_InputMessage** message initiates the operation to delete all documents in a content collection.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ClearColl
ectionResponse
```

The SOAP body MUST contain a **ClearCollectionResponse** element.

3.7.4.7.1.3 ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage

The **ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **ContentCollectionService_ClearCollection_InputMessage** message. The **ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage** message MUST be returned by the protocol server when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionService/ClearColl
ectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.7.4.7.2   Elements

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

3.7.4.7.2.1   ClearCollection

The **ClearCollection** element contains input data for a **ClearCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ClearCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="collectionName" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="resumeFeeding" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

collectionName: Name of a content collection. This MUST be the name of an existing content collection.

resumeFeeding: Specifies whether to call **ResumeFeeding**, by using the Content Feeding Protocol as specified in [MS-FSCF], after all documents have been deleted from the content collection.

After receipt of the **ClearCollection** message, the protocol server MUST perform the following operations to distribute the operation in the search system:

1. Call **SuspendFeeding** by using the Content Feeding Protocol, as specified in [MS-FSCF].

2. Call **ClearCollection** by using the Content Feeding Protocol, as specified in [MS-FSCF].

3. Call **RemoveCollection** by using the Configuration Middleware Protocol, as specified in [MS-FSCMW].

4. If **resumeFeeding** is set to **true**, call **ResumeFeeding** by using the Content Feeding Protocol as specified in [MS-FSCF].

3.7.4.7.2.2 ClearCollectionResponse

The **ClearCollectionResponse** element contains result data for a **ClearCollection** operation.

The following example specifies the structure of this element.

```
<xsd:element name="ClearCollectionResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.7.4.7.3 Complex Types

None.

3.7.4.7.4 Simple Types

None.

3.7.4.7.5 Attributes

None.

3.7.4.7.6 Groups

None.

3.7.4.7.7 Attribute Groups

None.

3.7.5 Timer Events

None.

3.7.6 Other Local Events

None.

3.8 KeywordService Server Details

3.8.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.
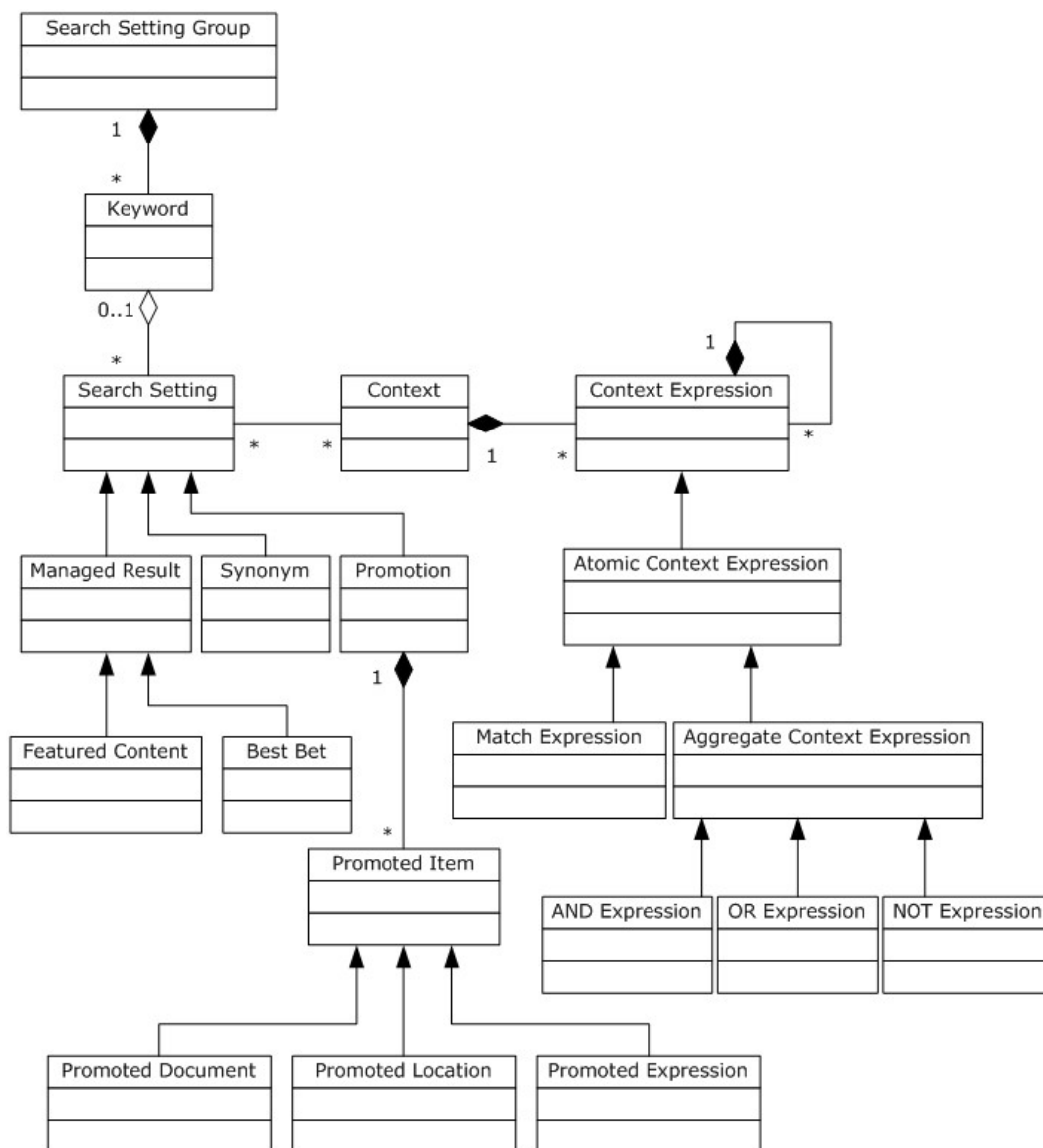
Figure 4: Conceptual data model for KeywordService

The purpose of keyword management is to identify words or phrases that are important for the search application. By identifying and configuring these keywords, a Web site administrator determines business rules that impact the query results when the keyword is used in a query.

The protocol server MUST maintain the following:

Search setting groups: A search setting group contains a collection of keywords and search settings.

Keywords: A keyword is a term or a phrase that is deemed important for the search application. Business rules, in the form of search settings, can be associated with the keyword to affect the query results when the keyword is used in a query. A search settings can be of the type synonym, featured content, best bet or promotion.

Synonyms: A type of search setting that causes queries for a keyword to be expanded to include the synonyms of the keyword.

Featured content: A type of search setting that causes additional content, possibly not present in the index of the search system, to be returned as part of the query result.

Best bets: A type of search setting that represent a search result a Web site administrator has deemed to be the most relevant result for a given keyword.

Promotions: A set of configuration values that cause certain query results to become ranked higher or lower for a given keyword. Which query results have their rank modified by the promotion is controlled by the promoted items of the promotion. Promoted items can be of the type promoted document, promoted location or promoted expression.

Promoted document: The URI of a single indexed item whose rank is to be modified by a promotion.

Promoted location: The prefix of an URI. All indexed items whose URI begins with this prefix have their rank modified by a promotion.

Promoted expression: An FQL expression, as specified by [MS-FSFQL]. All items in the index that match this expression have their rank modified by a promotion.

Search setting context: A set of configuration settings that controls the applicability of search settings. Each search setting context contains a context expression in the form of an abstract syntax tree composed of context expression nodes. Each context expression node can by of type **MATCH expression**, **AND expression**, **OR expression** or **NOT expression**. A search setting is only applied to a query result of a keyword if the context expression of at least one search setting context associated with the search setting evaluates to **true** based on the query context of the query.

MATCH expression node: A context expression node that represents a leaf node in a context expression. A **MATCH** expression node evaluates to **true** if and only if its name and value are present in the query context of a query.

AND expression node: A context expression node that represents an internal node in a context expression. An **AND** expression node evaluates to **true** only if all its subnodes also evaluate to **true**.

OR expression node: A context expression node that represents an internal node in a context expression. An **OR** expression node evaluates to **true** only if at least one of its subnodes also evaluate to **true**.

NOT expression node: A context expression node that represents an internal node in a context expression. A **NOT** expression node evaluates to **true** only if its single subnode is evaluated to **false**.

Internal context expression nodes are also referred to aggregate context expression nodes. Leaf context expression nodes are also referred to as atomic context expression nodes.

The protocol server MUST maintain the association between the concepts defined in the preceding figure.

All keywords MUST be associated with a search setting group. A search setting is either associated with a keyword, or is global within a search setting group. The protocol server MUST assign a unique identifier when a protocol client creates new search setting groups, keywords, search settings, promoted items, search setting contexts, and context expression nodes. These identifiers MUST be unique across search setting groups. When an item is deleted, the protocol server MUST perform a cascading delete operation.

3.8.2   Timers

None.

3.8.3   Initialization

None.

3.8.4   Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
AddContext	Adds a search setting context.
AddContextExpressionAggregateNode	Adds an aggregate context expression node.
AddContextExpressionAtomicNode	Adds an atomic context expression node.
AddKeyword	Adds a keyword.
AddPromotedItem	Adds a promoted item.
AddSearchSetting	Adds a search setting.
AddSearchSettingGroup	Adds a search setting group.
AddSynonym	Adds a synonym.
AttachContextToSearchSetting	Attaches a search setting context to a search setting.
AttachNamedContextToSearchSetting	Attaches a named search setting context to a search setting.
ContainsContextExpression	Checks whether a context expression node exists.
ContainsPromotedItem	Checks whether a promotion contains a promoted item.
ContainsSearchSettingByCriteria	Checks whether a search setting group contains a search setting that satisfies certain criteria.
ContainsSearchSettingById	Checks whether a search setting group contains a specific search setting.
CountContextsByCriteria	Counts the search setting contexts that satisfy certain criteria.

Operation	Description
CountContextsForSearchSetting	Counts the search setting contexts for a given search setting.
CountKeywordsByCriteria	Counts the keywords that satisfy certain criteria.
CountPromotedItems	Counts the number of promoted items.
CountSearchSettingsByCriteria	Counts the search settings that satisfy certain criteria.
CountSearchSettingsForContext	Counts the number of search settings that are associated with a search setting context.
CountSearchSettingsForGroupByCriteria	Counts the number of search settings in a search setting group that satisfy certain criteria.
CountSearchSettingGroups	Counts the number of search setting groups.
CreateAggregateContextExpressionRoot	Creates a context expression root for a search setting context.
DetachContextFromSearchSetting	Detaches a search setting context from a search setting.
DetachContextsFromSearchSetting	Detaches search setting contexts from a search setting.
DetachNamedContextFromSearchSetting	Detaches a named search setting context from a search setting.
GetBestBetPagedResult	Retrieves a list of best bets.
GetContextExpressionCount	Counts the number of context expression nodes that descend from a given context expression node.
GetContextExpressionTree	Retrieves a list of context expression nodes that comprise a complete context expression for a search setting context.
GetContextsPagedResult	Retrieves a list of search setting contexts.
GetEmptyKeyword	Retrieves a keyword instance that represents the undefined keyword. This grants permissions for search settings that are not specific to a keyword.
GetFeaturedContentPagedResult	Retrieves a list of featured content.
GetKeywordByCriteria	Retrieves a keyword that satisfies the criteria.
GetKeywordPagedResult	Retrieves a list of keywords.
GetNamedContext	Retrieves a named search setting context.
GetNamedContextForSearchSetting	Retrieves a named search setting context for a given search setting.

Operation	Description
GetNamedSearchSettingGroup	Retrieves a search setting group.
GetPromotedDocuments	Retrieves a list of promoted documents.
GetPromotedExpressions	Retrieves a list of promoted expressions.
GetPromotedItems	Retrieves a list of promoted items.
GetPromotedLocations	Retrieves a list of promoted locations.
GetPromotionPagedResult	Retrieves a list of promotions.
GetSearchSettingByNameAndType	Retrieves a search setting that has a given type and name.
GetSearchSettingGroups	Retrieves all search setting groups.
GetSearchSettingPagedResult	Retrieves a list of search settings.
GetSynonymPagedResult	Retrieves a list of synonyms.
RemoveContextsByCriteria	Deletes search setting contexts that satisfy certain criteria.
RemoveContextExpressionSubtreeIncludingParent	Deletes a context expression node and all nodes that descend from it.
RemoveContextExpressionSubtree	Deletes all context expression nodes that descend from a given node.
RemoveKeywordByCriteria	Deletes a keyword that satisfies certain criteria.
RemoveKeywordsByCriteria	Deletes keywords that satisfy certain criteria.
RemoveNamedContext	Deletes a named search setting context.
RemoveNamedSearchSettingByType	Deletes a named search setting of a given type.
RemoveNamedSearchSettingGroup	Deletes a search setting group.
RemovePromotedItems	Deletes promoted items.
RemoveSearchSettingsForGroupByCriteria	Deletes a search setting that satisfies certain criteria.
RemoveSearchSettingGroupById	Deletes a search setting group.
RemoveSearchSettingGroups	Deletes all search setting groups.
RemoveSearchSetting	Deletes a search setting.
RemoveSearchSettingsByCriteria	Deletes search settings that satisfy certain criteria.
UpdateContext	Updates a search setting context.
UpdateKeyword	Updates a keyword.

Operation	Description
UpdatePromotedItem	Updates a promoted item.
UpdateSearchSetting	Updates a search setting.
UpdateSearchSettingGroup	Updates a search setting group.

3.8.4.1 CountSearchSettingsForContext

The **CountSearchSettingsForContext** operation is used to retrieve the number of search settings associated with a search setting context

The following example specifies the structure of this operation.

```
<wsdl:operation name="CountSearchSettingsForContext">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContext"
message="tns:KeywordService_CountSearchSettingsForContext_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContextResponse"
message="tns:KeywordService_CountSearchSettingsForContext_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContextAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage
" />
</wsdl:operation>
```

3.8.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.1.1.1 KeywordService_CountSearchSettingsForContext_InputMessage

The **KeywordService_CountSearchSettingsForContext_InputMessage** request message initiates the operation to retrieve the number of search settings that are associated with a search setting context.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForContext
```

The SOAP body MUST contain a **CountSearchSettingsForContext** element.

3.8.4.1.1.2 KeywordService_CountSearchSettingsForContext_OutputMessage

The **KeywordService_CountSearchSettingsForContext_OutputMessage** response message is sent in reply to the request that is initiated by the
KeywordService_CountSearchSettingsForContext_InputMessage message. The
KeywordService_CountSearchSettingsForContext_InputMessage request message initiates

the operation to retrieve the number of search settings that are associated with a search setting context.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForContextResponse
```

The SOAP body MUST contain a **CountSearchSettingsForContextResponse** element.

3.8.4.1.1.3 KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountSearchSettingsForContext_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForContextAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.1.2 Elements

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

3.8.4.1.2.1 CountSearchSettingsForContext

The following example shows the **CountSearchSettingsForContext** element.

```
 <xsd:element name="CountSearchSettingsForContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

contextID: The identifier of the search setting context to retrieve the search setting count for.

3.8.4.1.2.2 CountSearchSettingsForContextResponse

The following example shows the **CountSearchSettingsForContextResponse** element.

```
<xsd:element name="CountSearchSettingsForContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
```

```
         name="CountSearchSettingsForContextResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountSearchSettingsForContextResult: The number of search settings for the search setting context.

3.8.4.1.3 Complex Types

None.

3.8.4.1.4 Simple Types

None.

3.8.4.1.5 Attributes

None.

3.8.4.1.6 Groups

None.

3.8.4.1.7 Attribute Groups

None.

3.8.4.2 GetEmptyKeyword

The **GetEmptyKeyword** operation is used to retrieve search settings that are not associated with a particular keyword. The returned **KeywordDTO** instance is provided only as a means to retrieve these search settings and does not represent any existing keyword. It MUST NOT be possible to delete or modify this keyword. It MUST NOT be possible to retrieve this keyword by using any operation other than **GetEmptyKeyword**.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetEmptyKeyword">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeyword" message="tns:KeywordService_GetEmptyKeyword_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeywordResponse" message="tns:KeywordService_GetEmptyKeyword_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeywordAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

3.8.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

Release: July 16, 2012

3.8.4.2.1.1 KeywordService_GetEmptyKeyword_InputMessage

The **KeywordService_GetEmptyKeyword_InputMessage** request message initiates the operation to retrieve the empty keyword from the protocol server.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmptyKeyword
```

The SOAP body MUST contain a **GetEmptyKeyword** element.

3.8.4.2.1.2 KeywordService_GetEmptyKeyword_OutputMessage

The **KeywordService_GetEmptyKeyword_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetEmptyKeyword_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmptyKeywordResp
onse
```

The SOAP body MUST contain a **GetEmptyKeywordResponse** element.

3.8.4.2.1.3 KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetEmptyKeyword_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmptyKeywordAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.2.2 Elements

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

3.8.4.2.2.1 GetEmptyKeyword

The **GetEmptyKeyword** element contains input data for a **GetEmptyKeyword** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetEmptyKeyword">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
```

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

groupId: The identifier of the search setting group that contains the empty keyword to be retrieved.

3.8.4.2.2.2 GetEmptyKeywordResponse

The **GetEmptyKeywordResponse** element contains response data from a **GetEmptyKeyword** operation.

The following example specifies the structure of this element.

```
  <xsd:element name="GetEmptyKeywordResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetEmptyKeywordResult"
          nillable="true" type="tns:KeywordDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

GetEmptyKeywordResult: The empty keyword for the search setting group.

3.8.4.2.3 Complex Types

None.

3.8.4.2.4 Simple Types

None.

3.8.4.2.5 Attributes

None.

3.8.4.2.6 Groups

None.

3.8.4.2.7 Attribute Groups

None.

3.8.4.3 AddSearchSettingGroup

The **AddSearchSettingGroup** operation adds a search setting group to the protocol server.

The following example specifies the structure of this operation.

```
  <wsdl:operation name="AddSearchSettingGroup">
```

```
   <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingGroup" message="tns:KeywordService_AddSearchSettingGroup_InputMessage" />
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingGroupResponse" message="tns:KeywordService_AddSearchSettingGroup_OutputMessage" />
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingGroupAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddSearchSettingGroup_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **KeywordService_AddSearchSettingGroup_OutputMessage** response message.

3.8.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.3.1.1 KeywordService_AddSearchSettingGroup_InputMessage

The **KeywordService_AddSearchSettingGroup_InputMessage** request message initiates the
addition of a search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSearchSettingGro
up
```

The SOAP body MUST contain an **AddSearchSettingGroup** element.

3.8.4.3.1.2 KeywordService_AddSearchSettingGroup_OutputMessage

The **KeywordService_AddSearchSettingGroup_OutputMessage** response message is sent in
reply to the request that is initiated by the
KeywordService_AddSearchSettingGroup_InputMessage message. The
KeywordService_AddSearchSettingGroup_InputMessage message initiates the operation to
add a search setting.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
AddSearchSettingGroupResponse
```

The SOAP body MUST contain an **AddSearchSettingGroupResponse** element.

3.8.4.3.1.3 KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

KeywordService_AddSearchSettingGroup_InputMessage. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSearchSettingGro
upAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.3.2 Elements

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

3.8.4.3.2.1 AddSearchSettingGroup

The **AddSearchSettingGroup** element contains input data for an **AddSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="description" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupName: The name of the group. This element MUST NOT be **null**.

description: The optional description of the group.

3.8.4.3.2.2 AddSearchSettingGroupResponse

The **AddSearchSettingGroupResponse** element contains result data for an **AddSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddSearchSettingGroupResult" nillable="true"
type="tns:SearchSettingGroupDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddSearchSettingGroupResult: The result of the addition of the search setting group. This element MUST be present, MUST NOT be **null** and its **Name** and **Description** elements MUST have the same values as those that are used in the initiating **AddSearchSettingGroup** element. In addition, the following elements MUST be included in the response:

LastChanged: The date and time of creation of the group on the protocol server, in UTC.

Id: A unique identifier assigned to the group.

The protocol server MUST enforce the uniqueness of the **Name** element.

3.8.4.3.3　Complex Types

None.

3.8.4.3.4　Simple Types

None.

3.8.4.3.5　Attributes

None.

3.8.4.3.6　Groups

None.

3.8.4.3.7　Attribute Groups

None.

3.8.4.4　GetNamedSearchSettingGroup

The **GetNamedSearchSettingGroup** operation retrieves a named search setting group from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetNamedSearchSettingGroup">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroup" message="tns:KeywordService_GetNamedSearchSettingGroup_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroupResponse"
message="tns:KeywordService_GetNamedSearchSettingGroup_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroupAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_GetNamedSearchSettingGroup_InputMessage request message. When the operation finishes successfully, the protocol server MUST respond with a
KeywordService_GetNamedSearchSettingGroup_OutputMessage response message.

3.8.4.4.1　Messages

The following WSDL message definitions are specific to this operation.

3.8.4.4.1.1 KeywordService_GetNamedSearchSettingGroup_InputMessage

The **KeywordService_GetNamedSearchSettingGroup_InputMessage** request message retrieves a named search setting group from the protocol server.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedSearchSetti
ngGroup
```

The SOAP body MUST contain a **GetNamedSearchSettingGroup** element.

3.8.4.4.1.2 KeywordService_GetNamedSearchSettingGroup_OutputMessage

The **KeywordService_GetNamedSearchSettingGroup_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetNamedSearchSettingGroup_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
GetNamedSearchSettingGroupResponse
```

The SOAP body MUST contain a **GetNamedSearchSettingGroupResponse** element.

3.8.4.4.1.3 KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_Fault Message

The **KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetNamedSearchSettingGroup_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedSearchSetti
ngGroupAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.4.2 Elements

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

3.8.4.4.2.1 GetNamedSearchSettingGroup

The **GetNamedSearchSettingGroup** element contains input data for a **GetNamedSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupName: The name of the group to retrieve.

3.8.4.4.2.2 GetNamedSearchSettingGroupResponse

The **GetNamedSearchSettingGroupResponse** element contains result data for a **GetNamedSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetNamedSearchSettingGroupResult" nillable="true"
type="tns:SearchSettingGroupDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetNamedSearchSettingGroupResult: The elements of the named search setting group.

3.8.4.4.3 Complex Types

None.

3.8.4.4.4 Simple Types

None.

3.8.4.4.5 Attributes

None.

3.8.4.4.6 Groups

None.

3.8.4.4.7 Attribute Groups

None.

3.8.4.5 UpdateSearchSettingGroup

The **UpdateSearchSettingGroup** operation updates a search setting group on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="UpdateSearchSettingGroup">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroup" message="tns:KeywordService_UpdateSearchSettingGroup_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupResponse"
message="tns:KeywordService_UpdateSearchSettingGroup_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_UpdateSearchSettingGroup_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **KeywordService_UpdateSearchSettingGroup_OutputMessage** response message.

3.8.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.5.1.1 KeywordService_UpdateSearchSettingGroup_InputMessage

The **KeywordService_UpdateSearchSettingGroup_InputMessage** request message initiates
the update of a named search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateSearchSetting
Group
```

The SOAP body MUST contain an **UpdateSearchSettingGroup** element.

3.8.4.5.1.2 KeywordService_UpdateSearchSettingGroup_OutputMessage

The **KeywordService_UpdateSearchSettingGroup_OutputMessage** response message is sent
in reply to the request that is initiated by the
KeywordService_UpdateSearchSettingGroup_InputMessage message.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
UpdateSearchSettingGroupResponse
```

The SOAP body MUST contain an **UpdateSearchSettingGroupResponse** element.

3.8.4.5.1.3
KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage

The **KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

KeywordService_UpdateSearchSettingGroup_InputMessage. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateSearchSetting
GroupAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.5.2 Elements

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

3.8.4.5.2.1 UpdateSearchSettingGroup

The **UpdateSearchSettingGroup** element contains input data for an **UpdateSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingGroup" nillable="true"
type="tns:SearchSettingGroupDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingGroup: The elements of the search setting group to update. The **searchSettingGroup** element MUST be present, it MUST NOT be **null** and its **Id** element MUST be the identifier of an existing search setting group. The protocol server MUST update the search setting group with the values from the **Name** and **Description** elements.

3.8.4.5.2.2 UpdateSearchSettingGroupResponse

The **UpdateSearchSettingGroupResponse** element contains result data for an **UpdateSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateSearchSettingGroupResult" nillable="true"
type="tns:SearchSettingGroupDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

UpdateSearchSettingGroupResult: The updated values. The **Id, Name** and **Description** elements MUST be the same values as those that are used in the initiating

UpdateSearchSettingGroup element. In addition, the following property MUST be set by the protocol server.

LastChanged. The date and time of the update operation on the protocol server, in UTC.

3.8.4.5.3 Complex Types

None.

3.8.4.5.4 Simple Types

None.

3.8.4.5.5 Attributes

None.

3.8.4.5.6 Groups

None.

3.8.4.5.7 Attribute Groups

None.

3.8.4.6 RemoveSearchSettingGroups

The **RemoveSearchSettingGroups** operation deletes all search setting groups from the protocol server. It also deletes all keywords in these groups, as well as all search settings for these keywords. All search setting contexts and context expressions are also deleted.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveSearchSettingGroups">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroups" message="tns:KeywordService_RemoveSearchSettingGroups_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsResponse"
message="tns:KeywordService_RemoveSearchSettingGroups_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveSearchSettingGroups_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_RemoveSearchSettingGroups_OutputMessage** response message.

3.8.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.6.1.1 KeywordService_RemoveSearchSettingGroups_InputMessage

The **KeywordService_RemoveSearchSettingGroups_InputMessage** request message initiates the removal of all search setting groups.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
Groups
```

The SOAP body MUST contain a **RemoveSearchSettingGroups** element.

3.8.4.6.1.2 KeywordService_RemoveSearchSettingGroups_OutputMessage

The **KeywordService_RemoveSearchSettingGroups_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveSearchSettingGroups_InputMessage** message. The **KeywordService_RemoveSearchSettingGroups_InputMessage** initiates the operation to remove search setting groups.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
RemoveSearchSettingGroupsResponse
```

The SOAP body MUST contain a **RemoveSearchSettingGroupsResponse** element.

3.8.4.6.1.3 KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveSearchSettingGroups_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
GroupsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.6.2 Elements

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

3.8.4.6.2.1 RemoveSearchSettingGroups

The **RemoveSearchSettingGroups** element contains input data for a **RemoveSearchSettingGroups** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveSearchSettingGroups">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.6.2.2 RemoveSearchSettingGroupsResponse

The **RemoveSearchSettingGroupsResponse** element contains result data for a **RemoveSearchSettingGroups** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveSearchSettingGroupsResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.6.3 Complex Types

None.

3.8.4.6.4 Simple Types

None.

3.8.4.6.5 Attributes

None.

3.8.4.6.6 Groups

None.

3.8.4.6.7 Attribute Groups

None.

3.8.4.7 RemoveSearchSettingGroupById

The **RemoveSearchSettingGroupById** operation deletes the search setting group with the given identifier from the protocol server. It MUST also delete all keywords associated with that search setting group, including the search settings that are associated with those keywords. All search setting contexts and context expressions for the group MUST also be deleted.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveSearchSettingGroupById">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupById"
message="tns:KeywordService_RemoveSearchSettingGroupById_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupByIdResponse"
message="tns:KeywordService_RemoveSearchSettingGroupById_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupByIdAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveSearchSettingGroupById_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveSearchSettingGroupById_InputMessage request message. The
protocol server MUST respond with a
KeywordService_RemoveSearchSettingGroupById_OutputMessage response message when
the operation finishes successfully.

3.8.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.7.1.1 KeywordService_RemoveSearchSettingGroupById_InputMessage

The **KeywordService_RemoveSearchSettingGroupById_InputMessage** request message
initiates the removal of a single search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
GroupById
```

The SOAP body MUST contain a **RemoveSearchSettingGroupById** element.

3.8.4.7.1.2 KeywordService_RemoveSearchSettingGroupById_OutputMessage

The **KeywordService_RemoveSearchSettingGroupById_OutputMessage** response message is
sent in reply to the request that is initiated by the
KeywordService_RemoveSearchSettingGroupById_InputMessage message. The
KeywordService_RemoveSearchSettingGroupById_InputMessage message initiates the
removal of a single search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
RemoveSearchSettingGroupByIdResponse
```

The SOAP body MUST contain a **RemoveSearchSettingGroupByIdResponse** element.

3.8.4.7.1.3 KeywordService_RemoveSearchSettingGroup AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveSearchSettingGroup AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveSearchSettingGroupById_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
GroupByIdAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.7.2 Elements

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

3.8.4.7.2.1 RemoveSearchSettingGroupById

The **RemoveSearchSettingGroupById** element contains input data for a **RemoveSearchSettingGroupById** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveSearchSettingGroupById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the group to delete. The element MUST be present, it MUST NOT be **null**, and it MUST be the identifier of an existing search setting group.

3.8.4.7.2.2 RemoveSearchSettingGroupByIdResponse

The **RemoveSearchSettingGroupByIdResponse** element contains result data for a **RemoveSearchSettingGroupById** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveSearchSettingGroupByIdResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.7.3 Complex Types

None.

3.8.4.7.4 Simple Types

None.

3.8.4.7.5 Attributes

None.

3.8.4.7.6 Groups

None.

3.8.4.7.7 Attribute Groups

None.

3.8.4.8 RemoveNamedSearchSettingGroup

The **RemoveNamedSearchSettingGroup** operation deletes a named search setting group. It MUST also delete all keywords associated with that search setting group, including the search settings that are associated with those keywords. All search setting contexts and context expressions for the group MUST also be deleted.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveNamedSearchSettingGroup">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingGroup"
message="tns:KeywordService_RemoveNamedSearchSettingGroup_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingGroupResponse"
message="tns:KeywordService_RemoveNamedSearchSettingGroup_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingGroupAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage
" />
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveNamedSearchSettingGroup_InputMessage request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveNamedSearchSettingGroup_OutputMessage response message.

3.8.4.8.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.8.1.1 KeywordService_RemoveNamedSearchSettingGroup_InputMessage

The **KeywordService_RemoveNamedSearchSettingGroup_InputMessage** request message initiates the removal of a named search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedSearchSe
ttingGroup
```

The SOAP body MUST contain a **RemoveNamedSearchSettingGroup** element.

3.8.4.8.1.2 KeywordService_RemoveNamedSearchSettingGroup_OutputMessage

The **KeywordService_RemoveNamedSearchSettingGroup_InputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveNamedSearchSettingGroup_InputMessage** message. The **KeywordService_RemoveNamedSearchSettingGroup_InputMessage** message initiates the removal of a named search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
RemoveNamedSearchSettingGroupResponse
```

The SOAP body MUST contain a **RemoveNamedSearchSettingGroupResponse** element.

3.8.4.8.1.3 KeywordService_RemoveNamedSearchSettingGroup AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveNamedSearchSettingGroup AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveNamedSearchSettingGroup_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedSearchSe
ttingGroupAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.8.2 Elements

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

3.8.4.8.2.1 RemoveNamedSearchSettingGroup

The **RemoveNamedSearchSettingGroup** element contains input data for a **RemoveNamedSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveNamedSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupName: The name of the group to delete. This element MUST be present and it MUST NOT be **null**.

3.8.4.8.2.2   RemoveNamedSearchSettingGroupResponse

The **RemoveNamedSearchSettingGroupResponse** element contains result data for a **RemoveNamedSearchSettingGroup** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveNamedSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.8.3   Complex Types

None.

3.8.4.8.4   Simple Types

None.

3.8.4.8.5   Attributes

None.

3.8.4.8.6   Groups

None.

3.8.4.8.7   Attribute Groups

None.

3.8.4.9   CountSearchSettingGroups

The **CountSearchSettingGroups** operation counts the number of search setting groups on the protocol server.

The following example specifies the structure of this element.

```
<wsdl:operation name="CountSearchSettingGroups">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroups" message="tns:KeywordService_CountSearchSettingGroups_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroupsResponse"
message="tns:KeywordService_CountSearchSettingGroups_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroupsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_CountSearchSettingGroups_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_CountSearchSettingGroups_OutputMessage response message.

3.8.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.9.1.1 KeywordService_CountSearchSettingGroups_InputMessage

The **KeywordService_CountSearchSettingGroups_InputMessage** request message initiates
the operation to count search setting groups.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettingG
roups
```

The SOAP body MUST contain a **CountSearchSettingGroups** element.

3.8.4.9.1.2 KeywordService_CountSearchSettingGroups_OutputMessage

The **KeywordService_CountSearchSettingGroups_OutputMessage** response message is sent
in reply to the request that is initiated by the
KeywordService_CountSearchSettingGroups_InputMessage message. The
KeywordService_CountSearchSettingGroups_InputMessage message initiates the operation
to count search setting groups.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
CountSearchSettingGroupsResponse
```

The SOAP body MUST contain a **CountSearchSettingGroupsResponse** element.

3.8.4.9.1.3 KeywordService_CountSearchSettingGroups
AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountSearchSettingGroups AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

KeywordService_CountSearchSettingGroups_InputMessage message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettingG
roupsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.9.2 Elements

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

3.8.4.9.2.1 CountSearchSettingGroups

The **CountSearchSettingGroups** element contains input data for a **CountSearchSettingGroups** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountSearchSettingGroups">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.9.2.2 CountSearchSettingGroupsResponse

The **CountSearchSettingGroupsResponse** element contains result data for a **CountSearchSettingGroups** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountSearchSettingGroupsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountSearchSettingGroupsResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountSearchSettingGroupResult: The number of search setting groups.

3.8.4.9.3 Complex Types

None.

3.8.4.9.4 Simple Types

None.

3.8.4.9.5 Attributes

None.

3.8.4.9.6 Groups

None.

3.8.4.9.7 Attribute Groups

None.

3.8.4.10 GetSearchSettingGroups

The **GetSearchSettingGroups** operation retrieves all search setting groups from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetSearchSettingGroups">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroups" message="tns:KeywordService_GetSearchSettingGroups_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsResponse" message="tns:KeywordService_GetSearchSettingGroups_OutputMessage"
/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetSearchSettingGroups_InputMessage** request message. The protocol server MUST respond with a **KeywordService_GetSearchSettingGroups_OutputMessage** response message when the operation finishes successfully.

3.8.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.10.1.1 KeywordService_GetSearchSettingGroups_InputMessage

The **KeywordService_GetSearchSettingGroups_InputMessage** request message initiates the operation to retrieve all search setting groups.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingGro
ups
```

3.8.4.10.1.2 KeywordService_GetSearchSettingGroups_OutputMessage

The **KeywordService_GetSearchSettingGroups_OutputMessage r**esponse message is sent in reply to the request that is initiated by the **KeywordService_GetSearchSettingGroups_InputMessage** message. The **KeywordService_GetSearchSettingGroups_InputMessage** request message initiates the operation to retrieve all search setting groups.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
GetSearchSettingGroupsResponse
```

The SOAP body MUST contain a **GetSearchSettingGroupsResponse** element.

3.8.4.10.1.3 KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetSearchSettingGroups_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingGro
upsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.10.2 Elements

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

3.8.4.10.2.1 GetSearchSettingGroups

The **GetSearchSettingGroups** element contains input data for a **GetSearchSettingGroups** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetSearchSettingGroups">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.10.2.2 GetSearchSettingGroupsResponse

The **GetSearchSettingGroupsResponse** element contains result data for a
GetSearchSettingGroups operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetSearchSettingGroupsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetSearchSettingGroupsResult" nillable="true"
type="tns:ArrayOfSearchSettingGroupDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetSearchSettingGroupsResult: An array of **SearchSettingGroupDTO**.

3.8.4.10.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.10.3.1 ArrayOfSearchSettingGroupDTO

The **ArrayOfSearchSettingGroupDTO** complex type contains an array of
SearchSettingGroupDTO. This array contains zero, one, or more search setting group elements.

The following example specifies the structure of this element.

```
<xsd:complexType name="ArrayOfSearchSettingGroupDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="SearchSettingGroupDTO"
nillable="true" type="tns:SearchSettingGroupDTO" />
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.10.4 Simple Types

None.

3.8.4.10.5 Attributes

None.

3.8.4.10.6 Groups

None.

3.8.4.10.7 Attribute Groups

None.

3.8.4.11 AddKeyword

The **AddKeyword** operation adds a keyword to a search setting group on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddKeyword">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
word" message="tns:KeywordService_AddKeyword_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
wordResponse" message="tns:KeywordService_AddKeyword_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
wordAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddKeyword_InputMessage** request message. The protocol server MUST respond with a **KeywordService_AddKeyword_OutputMessage** response message when the operation finishes successfully.

3.8.4.11.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.11.1.1 KeywordService_AddKeyword_InputMessage

The **KeywordService_AddKeyword_InputMessage** request message initiates the addition of a keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKeyword
```

The SOAP body MUST contain an **AddKeyword** element.

3.8.4.11.1.2 KeywordService_AddKeyword_OutputMessage

The **KeywordService_AddKeyword_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddKeyword_InputMessage** message. The **KeywordService_AddKeyword_InputMessage** message initiates the addition of a keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKeywordResponse
```

The SOAP body MUST contain a **AddKeywordResponse** element.

3.8.4.11.1.3 KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddKeyword_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKeywordAdminExce
ptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.11.2 Elements

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

3.8.4.11.2.1 AddKeyword

The **AddKeyword** element contains input data for an **AddKeyword** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddKeyword">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keyword" nillable="true" type="tns:KeywordDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

keyword: The elements of the keyword to add. This element MUST be present and it MUST NOT be **null**. The protocol server MUST use the values from the elements **Group**, **Name** and **Description** when adding the keyword. The value of **Name** MUST NOT be the name of an already existing keyword in the same search setting group.

3.8.4.11.2.2 AddKeywordResponse

The **AddKeywordResponse** element contains result data for an **AddKeyword** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddKeywordResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddKeywordResult" nillable="true"
type="tns:KeywordDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddKeywordResult: The elements of the added keyword. The **Group**, **Name** and **Description** elements MUST have the same values as those of the **AddKeyword** element that initiated this operation. In addition, the following properties MUST be set by the protocol server.

LastChanged: The date and time of creation of the group on the protocol server, in UTC.

Id: A unique identifier for the keyword. This identifier MUST be unique across search setting groups.

3.8.4.11.3 Complex Types

None.

3.8.4.11.4 Simple Types

None.

3.8.4.11.5 Attributes

None.

3.8.4.11.6 Groups

None.

3.8.4.11.7 Attribute Groups

None.

3.8.4.12 GetKeywordByCriteria

The **GetKeywordByCriteria** operation retrieves a named keyword that satisfies certain criteria from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetKeywordByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteria" message="tns:KeywordService_GetKeywordByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaResponse" message="tns:KeywordService_GetKeywordByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetKeywordByCriteria_InputMessage** request message. The protocol server MUST respond with a **KeywordService_GetKeywordByCriteria_OutputMessage** response message when the operation finishes successfully.

3.8.4.12.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.12.1.1 KeywordService_GetKeywordByCriteria_InputMessage

The **KeywordService_GetKeywordByCriteria_InputMessage** request message initiates the operation to retrieve a named keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordByCriteria
```

The SOAP body MUST contain a **GetKeywordByCriteria** element.

3.8.4.12.1.2 KeywordService_GetKeywordByCriteria_OutputMessage

The **KeywordService_GetKeywordByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetKeywordByCriteria_InputMessage** message. The **KeywordService_GetKeywordByCriteria_InputMessage** request message initiates the operation to retrieve a named keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordByCriteriaResponse
```

The SOAP body MUST contain a **GetKeywordByCriteriaResponse** element.

3.8.4.12.1.3
KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetKeywordByCriteria_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordByCriteriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.12.2 Elements

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

3.8.4.12.2.1 GetKeywordByCriteria

The **GetKeywordByCriteria** element contains input data for a **GetKeywordByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetKeywordByCriteria">
```

```
<xsd:complexType>
  <xsd:sequence>
    <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="keywordName" nillable="true" type="xsd:string"/>
    <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
```

filter: If not **null**, a keyword MUST be retrieved only if its name contains this substring or has a search setting whose name contains this substring. If **null**, no filtering is performed.

keywordName: The keyword term. This element MUST be present and it MUST NOT be **null**.

groupId: The identifier of the search setting group in which to retrieve the named keyword. This element MUST be present.

3.8.4.12.2.2 GetKeywordByCriteriaResponse

The **GetKeywordByCriteriaResponse** element contains result data for an **GetKeywordByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetKeywordByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetKeywordByCriteriaResult" nillable="true"
type="tns:KeywordDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetKeywordByCriteriaResult: The elements of the retrieved keyword. This value MUST be **null** if the keyword does not exist or if it does not match the filter criteria.

3.8.4.12.3 Complex Types

None.

3.8.4.12.4 Simple Types

None.

3.8.4.12.5 Attributes

None.

3.8.4.12.6 Groups

None.

3.8.4.12.7 Attribute Groups

None.

3.8.4.13 UpdateKeyword

The **UpdateKeyword** operation updates a keyword on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="UpdateKeyword">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
Keyword" message="tns:KeywordService_UpdateKeyword_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
KeywordResponse" message="tns:KeywordService_UpdateKeyword_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
KeywordAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_UpdateKeyword_InputMessage** request message. The protocol server MUST respond with a **KeywordService_UpdateKeyword_OutputMessage** response message when the operation finishes successfully.

3.8.4.13.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.13.1.1 KeywordService_UpdateKeyword_InputMessage

The **KeywordService_UpdateKeyword_InputMessage** request message initiates the update of the keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateKeyword
```

The SOAP body MUST contain a **UpdateKeyword** element.

3.8.4.13.1.2 KeywordService_UpdateKeyword_OutputMessage

The **KeywordService_UpdateKeyword_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateKeyword_InputMessage** message. The **KeywordService_UpdateKeyword_InputMessage** request message initiates the update of the keyword.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateKeywordRespon
se
```

The SOAP body MUST contain a **UpdateKeywordResponse** element.

3.8.4.13.1.3 KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage

The **KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateKeyword_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateKeywordAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.13.2 Elements

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

3.8.4.13.2.1 UpdateKeyword

The **UpdateKeyword** element contains input data for an **UpdateKeyword** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateKeyword">
   <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="keyword" nillable="true" type="tns:KeywordDTO"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

keyword: The elements of the keyword to update. The element MUST be present and it MUST NOT be **null**. The protocol server MUST update the keyword with the values from the **Name** and **Description** elements.

3.8.4.13.2.2 UpdateKeywordResponse

The **UpdateKeywordResponse** element contains result data for an **UpdateKeyword** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateKeywordResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateKeywordResult" nillable="true"
type="tns:KeywordDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

UpdateKeywordResult: The updated values. The **Id, Group, Name,** and **Description** elements MUST be the same values as those used in the initiating **UpdateKeyword** element. In addition, the following property MUST be set by the protocol server:

LastChanged: The date and time of the update operation on the protocol server, in UTC.

3.8.4.13.3 Complex Types

None.

3.8.4.13.4 Simple Types

None.

3.8.4.13.5 Attributes

None.

3.8.4.13.6 Groups

None.

3.8.4.13.7 Attribute Groups

None.

3.8.4.14 RemoveKeywordByCriteria

The **RemoveKeywordByCriteria** operation deletes a named keyword from the protocol server. It also deletes the associated search settings of that keyword.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveKeywordByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteria" message="tns:KeywordService_RemoveKeywordByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaResponse"
message="tns:KeywordService_RemoveKeywordByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveKeywordByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_RemoveKeywordByCriteria_OutputMessage** response message.

3.8.4.14.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.14.1.1   KeywordService_RemoveKeywordByCriteria_InputMessage

The **KeywordService_RemoveKeywordByCriteria_InputMessage** request message initiates the operation to remove a keyword.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordByCrit
eria
```

The SOAP body MUST contain a **RemoveKeywordByCriteria** element.

3.8.4.14.1.2   KeywordService_RemoveKeywordByCriteria_OutputMessage

The **KeywordService_RemoveKeywordByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveKeywordByCriteria_InputMessage** message. The **KeywordService_RemoveKeywordByCriteria_InputMessage** request message initiates the operation to delete a keyword.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordByCrit
eriaResponse
```

The SOAP body MUST contain a **RemoveKeywordByCriteriaResponse** element.

3.8.4.14.1.3   KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveKeywordByCriteria_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordByCrit
eriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.14.2   Elements

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

3.8.4.14.2.1   RemoveKeywordByCriteria

The **RemoveKeywordByCriteria** element contains input data for a **RemoveKeywordByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveKeywordByCriteria">
   <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="keywordName" nillable="true" type="xsd:string"/>
         <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

keywordName: The name of the keyword to delete. The element MUST be present and it MUST NOT be **null**.

groupId: The identifier of the search setting group in which to delete the named keyword.

This protocol server MUST also delete any search settings associated with the deleted keyword.

3.8.4.14.2.2   RemoveKeywordByCriteriaResponse

The **RemoveKeywordByCriteriaResponse** element contains result data for a **RemoveKeywordByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveKeywordResponse">
    <xsd:complexType>
       <xsd:sequence/>
    </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.14.3   Complex Types

None.

3.8.4.14.4   Simple Types

None.

3.8.4.14.5   Attributes

None.

3.8.4.14.6   Groups

None.

3.8.4.14.7   Attribute Groups

None.

3.8.4.15 RemoveKeywordsByCriteria

The **RemoveKeywordsByCriteria** operation deletes keywords that satisfy certain criteria from a search setting group. This operation also deletes the search settings associated with these keywords.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveKeywordsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteria" message="tns:KeywordService_RemoveKeywordsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaResponse"
message="tns:KeywordService_RemoveKeywordsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveKeywordsByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_RemoveKeywordsByCriteria_OutputMessage** response message.

3.8.4.15.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.15.1.1 KeywordService_RemoveKeywordsByCriteria_InputMessage

The **KeywordService_RemoveKeywordsByCriteria_InputMessage** request message initiates the removal of all keywords from a search setting group on the protocol server.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordsByCri
teria
```

The SOAP body MUST contain a **RemoveKeywordsByCriteria** element.

3.8.4.15.1.2 KeywordService_RemoveKeywordsByCriteria_OutputMessage

The **KeywordService_RemoveKeywordsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveKeywordsByCriteria_InputMessage** message. The **KeywordService_RemoveKeywordsByCriteria_InputMessage** message initiates the operation to delete all keywords from a search setting group.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordsByCri
teriaResponse
```

The SOAP body MUST contain a **RemoveKeywordsByCriteriaResponse** element.

3.8.4.15.1.3 KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage

The
KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
KeywordService_RemoveKeywordsByCriteria_InputMessage message. The protocol server
MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveKeywordsByCri
teriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.15.2 Elements

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

3.8.4.15.2.1 RemoveKeywordsByCriteria

The **RemoveKeywordsByCriteria** element contains input data for a **RemoveKeywordsByCriteria**
operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveKeywordsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

filter: If not **null**, only the keywords whose term contains this substring or which have search
settings whose term contains this substring MUST be deleted. If **null**, no filtering is performed.

groupId: The identifier of the search setting group in which to delete keywords.

This protocol server MUST also delete the search settings that are associated with the deleted
keywords.

3.8.4.15.2.2 RemoveKeywordsByCriteriaResponse

The **RemoveKeywordsByCriteriaResponse** element contains result data for an
RemoveKeywordsByCriteria operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveKeywordsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.15.3 Complex Types

None.

3.8.4.15.4 Simple Types

None.

3.8.4.15.5 Attributes

None.

3.8.4.15.6 Groups

None.

3.8.4.15.7 Attribute Groups

None.

3.8.4.16 CountKeywordsByCriteria

The **CountKeywordsByCriteria** operation counts the number of keywords that satisfy certain criteria in a search setting group.

The following example specifies the structure of this operation.

```
<wsdl:operation name="CountKeywordsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteria" message="tns:KeywordService_CountKeywordsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaResponse"
message="tns:KeywordService_CountKeywordsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_CountKeywordsByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_CountKeywordsByCriteria_OutputMessage** response message.

3.8.4.16.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.16.1.1   KeywordService_CountKeywordsByCriteria_InputMessage

The **KeywordService_CountKeywordsByCriteria_InputMessage** request message initiates the operation to count keywords based on the given criteria.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountKeywordsByCrit
eria
```

The SOAP body MUST contain a **CountKeywordsByCriteria** element.

3.8.4.16.1.2   KeywordService_CountKeywordsByCriteria_OutputMessage

The **KeywordService_CountKeywordsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountKeywordsByCriteria_InputMessage**. The **KeywordService_CountKeywordsByCriteria_InputMessage** request message initiates the operation to count keywords based on the given criteria.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountKeywordsByCrit
eriaResponse
```

The SOAP body MUST contain a **CountKeywordsByCriteriaResponse** element.

3.8.4.16.1.3   KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountKeywordsByCriteria_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountKeywordsByCrit
eriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.16.2   Elements

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

3.8.4.16.2.1 CountKeywordsByCriteria

The **CountKeywordsByCriteria** element contains input data for a **CountKeywordsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountKeywordsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

filter: If not **null**, only the keywords whose term contains this substring or which have search settings whose term contains this substring MUST be counted. If **null**, no filtering is performed.

groupId: The identifier of the search setting group in which to count keywords.

3.8.4.16.2.2 CountKeywordsByCriteriaResponse

The **CountKeywordsByCriteriaResponse** element contains result data for a **CountKeywordsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountKeywordsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountKeywordsByCriteriaResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountKeywordsByCriteriaResult: The number of keywords that meet the given criteria.

3.8.4.16.3 Complex Types

None.

3.8.4.16.4 Simple Types

None.

3.8.4.16.5 Attributes

None.

3.8.4.16.6 Groups

None.

3.8.4.16.7   Attribute Groups

None.

3.8.4.17   GetKeywordPagedResult

The **GetKeywordPagedResult** operation retrieves a list of keywords from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of keywords from a potentially large result set.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetKeywordPagedResult">
      <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResult" message="tns:KeywordService_GetKeywordPagedResult_InputMessage"/>
      <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResultResponse" message="tns:KeywordService_GetKeywordPagedResult_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetKeywordPagedResult_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_GetKeywordPagedResult_OutputMessage** response message.

3.8.4.17.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.17.1.1   KeywordService_GetKeywordPagedResult_InputMessage

The **KeywordService_GetKeywordPagedResult_InputMessage** request message initiates the operation to retrieve the list of keywords.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordPagedResu
lt
```

The SOAP body MUST contain a **GetKeywordPagedResult** element.

3.8.4.17.1.2   KeywordService_GetKeywordPagedResult_OutputMessage

The **KeywordService_GetKeywordPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetKeywordPagedResult_InputMessage** message. The **KeywordService_GetKeywordPagedResult_InputMessage** request message initiates the operation to retrieve the list of keywords.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordPagedResu
ltResponse
```

The SOAP body MUST contain a **GetKeywordPagedResultResponse** element

3.8.4.17.1.3 KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_GetKeywordPagedResult_InputMessage. The protocol server MUST return
this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKeywordPagedResu
ltAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.17.2 Elements

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

3.8.4.17.2.1 GetKeywordPagedResult

The **GetKeywordPagedResult** element contains input data for a **GetKeywordPagedResult**
operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetKeywordPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="field" type="tns:KeywordSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the search setting group from which to retrieve keywords.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number of keywords to skip after sorting the result.

count: The number of keywords to retrieve.

filter: If this value is not **null**, only the keywords whose term contains this substring or which have search settings whose term contains this substring MUST be included in the list. If this value is **null**, no filtering is performed.

3.8.4.17.2.2 GetKeywordPagedResultResponse

The **GetKeywordPagedResultResponse** element contains result data for a **GetKeywordPagedResult** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetKeywordPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetKeywordPagedResultResult" nillable="true"
type="tns:ArrayOfKeywordDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetKeywordPagedResult: An array of **KeywordDTO**.

3.8.4.17.3 Complex types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.17.3.1 ArrayOfKeywordDTO

The **ArrayOfKeywordDTO** complex type contains an array of **KeywordDTO**. This array contains zero, one, or more **keyword** elements.

The following example specifies the structure of this complex type.

```
<xsd:complexType name="ArrayOfKeywordDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="KeywordDTO" nillable="true"
type="tns:KeywordDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.17.4 Simple types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.17.4.1 KeywordSortField

The following example shows the **KeywordSortField** simple type.

```
<xsd:simpleType name="KeywordSortField">
 <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Term"/>
    <xsd:enumeration value="LastChanged"/>
 </xsd:restriction>
```

```
</xsd:simpleType>
```

The following table specifies the valid values for **KeywordSortField**.

Value	Meaning
Term	Sort the result by keyword term.
LastChanged	Sort the result according to the time at which the keyword was last changed.

3.8.4.17.5 Attributes

None.

3.8.4.17.6 Groups

None.

3.8.4.17.7 Attribute Groups

None.

3.8.4.18 GetNamedContext

The **GetNamedContext** operation retrieves a named search setting context for a search setting group from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetNamedContext">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContext" message="tns:KeywordService_GetNamedContext_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextResponse" message="tns:KeywordService_GetNamedContext_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetNamedContext_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_GetNamedContext_OutputMessage** response message.

3.8.4.18.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.18.1.1 KeywordService_GetNamedContext_InputMessage

The **KeywordService_GetNamedContext_InputMessage** request message initiates the retrieval of a named search setting context.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedContext
```

The SOAP body MUST contain a **GetNamedContext** element.

3.8.4.18.1.2 KeywordService_GetNamedContext_OutputMessage

The **KeywordService_GetNamedContext_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetNamedContext_InputMessage** message. The **KeywordService_GetNamedContext_InputMessage** request message initiates the operation to retrieve a named search setting context.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedContextResp
onse
```

The SOAP body MUST contain a **GetNamedContextResponse** element.

3.8.4.18.1.3
KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetNamedContext_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedContextAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.18.2 Elements

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

3.8.4.18.2.1 GetNamedContext

The **GetNamedContext** element contains input data for a **GetNamedContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

contextName: The name of the search setting context.

groupId: The group identifier of the search setting context.

3.8.4.18.2.2 GetNamedContextResponse

The **GetNamedContextResponse** element contains result data for a **GetNamedContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetNamedContextResult" nillable="true"
type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetNamedContextResult: The elements of the named search setting context.

3.8.4.18.3 Complex Types

None.

3.8.4.18.4 Simple Types

None.

3.8.4.18.5 Attributes

None.

3.8.4.18.6 Groups

None.

3.8.4.18.7 Attribute Groups

None.

3.8.4.19 GetNamedContextForSearchSetting

The **GetNamedContextForSearchSetting** operation retrieves a named search setting context for a search setting with a given identifier from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetNamedContextForSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
```

```
edContextForSearchSetting"
message="tns:KeywordService_GetNamedContextForSearchSetting_InputMessage"/>
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextForSearchSettingResponse"
message="tns:KeywordService_GetNamedContextForSearchSetting_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextForSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_GetNamedContextForSearchSetting_InputMessage request message. The
protocol server MUST respond with a
KeywordService_GetNamedContextForSearchSetting_OutputMessage response message
when the operation finishes successfully.

3.8.4.19.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.19.1.1 KeywordService_GetNamedContextForSearchSetting_InputMessage

The **KeywordService_GetNamedContextForSearchSetting_InputMessage** request message
initiates the operation to retrieve a named search setting context for a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedContextForS
earchSetting
```

The SOAP body MUST contain a **GetNamedContextForSearchSetting** element.

3.8.4.19.1.2 KeywordService_GetNamedContextForSearchSetting_OutputMessage

The **KeywordService_GetNamedContextForSearchSetting_OutputMessage** response
message is sent in reply to the request that is initiated by the
KeywordService_GetNamedContextForSearchSetting_InputMessage message. The
KeywordService_GetNamedContextForSearchSetting_InputMessage request message
initiates the operation to retrieve a named search setting context for a search setting.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/
GetNamedContextForSearchSettingResponse
```

The SOAP body MUST contain a **GetNamedContextForSearchSettingResponse** element.

3.8.4.19.1.3 KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_ FaultMessage

The **KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetNamedContextForSearchSetting_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNamedContextForS
earchSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.19.2 Elements

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

3.8.4.19.2.1 GetNamedContextForSearchSetting

The **GetNamedContextForSearchSetting** element contains input data for a **GetNamedContextForSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedContextForSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

contextName: The name of the search setting context.

searchSettingId: The identifier of the search setting.

3.8.4.19.2.2 GetNamedContextForSearchSettingResponse

The **GetNamedContextForSearchSettingResponse** element contains result data for a **GetNamedContextForSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetNamedContextForSearchSettingResponse">
  <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetNamedContextForSearchSettingResult"
nillable="true" type="tns:ContextDTO"/>
      </xsd:sequence>
```

```
    </xsd:complexType>
  </xsd:element>
```

GetNamedContextForSearchSettingResult: The elements of the named search setting context.

3.8.4.19.3 Complex Types

None.

3.8.4.19.4 Simple Types

None.

3.8.4.19.5 Attributes

None.

3.8.4.19.6 Groups

None.

3.8.4.19.7 Attribute Groups

None.

3.8.4.20 AddContext

The **AddContext** operation adds a search setting context to a search setting group on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddContext">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
text" message="tns:KeywordService_AddContext_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textResponse" message="tns:KeywordService_AddContext_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddContext_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_AddContext_OutputMessage** response message.

3.8.4.20.1 KeywordService_AddContext_InputMessage

The **KeywordService_AddContext_InputMessage** request message initiates the addition of a search setting context to a search setting group.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContext
```

The SOAP body MUST contain an **AddContext** element.

3.8.4.20.2 KeywordService_AddContext_OutputMessage

The **KeywordService_AddContext_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddContext_InputMessage** message. The **KeywordService_AddContext_InputMessage** request message initiates the addition of a search setting context to a search setting group.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextResponse
```

The SOAP body MUST contain an **AddContextResponse** element.

3.8.4.20.3 KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddContext_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextAdminExce
ptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.20.4 Elements

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

3.8.4.20.4.1 AddContext

The **AddContext** element contains input data for an **AddContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="context" nillable="true" type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

context: The properties of the search setting context to add. The element MUST be present and it MUST NOT be **null**. The protocol server MUST add the search setting context with the values of its **Group**, **Name** and **Description** elements.

3.8.4.20.4.2 AddContextResponse

The **AddContextResponse** element contains result data for an **AddContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddContextResult" nillable="true"
type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddContextResult: The elements of the added search setting context. The **Group, Name**, and **Description** elements MUST have the same values as those that were used in the **AddContext** element. The protocol server MUST enforce the uniqueness of the search setting context name within a search setting group. The following properties MUST be set by the protocol server:

lastChanged: The date and time of creation of the search setting context on the protocol server, in UTC.

Id: A unique identifier for the search setting context. This identifier MUST be unique across search setting groups.

3.8.4.20.5 Complex Types

None.

3.8.4.20.6 Simple Types

None.

3.8.4.20.7 Attributes

None.

3.8.4.20.8 Groups

None.

3.8.4.20.9 Attribute Groups

None.

3.8.4.21 CountContextsByCriteria

The **CountContextsByCriteria** operation counts the number of search setting contexts in a search setting group that satisfy certain criteria on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="CountContextsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteria" message="tns:KeywordService_CountContextsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteriaResponse"
message="tns:KeywordService_CountContextsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_CountContextsByCriteria_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_CountContextsByCriteria_OutputMessage** response message.

3.8.4.21.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.21.1.1 KeywordService_CountContextsByCriteria_InputMessage

The **KeywordService_CountContextsByCriteria_InputMessage** request message initiates the operation to count contexts.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsByCrit
eria
```

The SOAP body MUST contain a **CountContextsByCriteria** element.

3.8.4.21.1.2 KeywordService_CountContextsByCriteria_OutputMessage

The **KeywordService_CountContextsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountContextsByCriteria_InputMessage** message. The **KeywordService_CountContextsByCriteria_InputMessage** request message initiates the operation to count contexts.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsByCrit
eriaResponse
```

The SOAP body MUST contain a **CountContextsByCriteriaResponse** element.

3.8.4.21.1.3 KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountContextsByCriteria_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsByCrit
eriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.21.2 Elements

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

3.8.4.21.2.1 CountContextsByCriteria

The **CountContextsByCriteria** element contains input data for a **CountContextsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountContextsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

filter: If not **null**, only the search setting contexts that have names containing this substring are included in the count. If **null**, no filtering is performed.

groupId: The identifier of the search setting group.

If **filter** is **null**, all search setting contexts in the search setting group MUST be counted by the protocol server.

3.8.4.21.2.2 CountContextsByCriteriaResponse

The **CountContextsByCriteriaResponse** element contains result data for a **CountContextsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountContextsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
```

```
        <xsd:element minOccurs="0" name="CountContextsByCriteriaResult" type="xsd:int"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

CountContextsByCriteriaResult: The number of search setting contexts that match the criteria.

3.8.4.21.3 Complex Types

None.

3.8.4.21.4 Simple Types

None.

3.8.4.21.5 Attributes

None.

3.8.4.21.6 Groups

None.

3.8.4.21.7 Attribute Groups

None.

3.8.4.22 CountContextsForSearchSetting

The **CountContextsForSearchSetting** operation counts the number of search setting contexts for a given search setting on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="CountContextsForSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSetting"
message="tns:KeywordService_CountContextsForSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSettingResponse"
message="tns:KeywordService_CountContextsForSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage
"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_CountContexsForSearchSetting_InputMessage request message. When the operation finishes successfully, the protocol server MUST respond with a
KeywordService_CountContextsForSearchSetting_OutputMessage response message.

3.8.4.22.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.22.1.1 KeywordService_CountContextsForSearchSetting_InputMessage

The **KeywordService_CountContextsForSearchSetting_InputMessage** request message initiates the counting of search setting contexts for a given search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsForSea
rchSetting
```

The SOAP body MUST contain a **CountContextsForSearchSetting** element.

3.8.4.22.1.2 KeywordService_CountContextsForSearchSetting_OutputMessage

The **KeywordService_CountContextsForSearchSetting_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountContextsForSearchSetting_InputMessage** message. The **KeywordService_CountContextsForSearchSetting_InputMessage** request message initiates the counting of search setting contexts for a given search setting.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsForSea
rchSettingResponse
```

The SOAP body MUST contain a **CountContextsForSearchSettingResponse** element.

3.8.4.22.1.3 KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountContextsForSearchSetting_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountContextsForSea
rchSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.22.2 Elements

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

3.8.4.22.2.1 CountContextsForSearchSetting

The **CountContextsForSearchSetting** element contains input data for a **CountContextsForSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountContextsForSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

3.8.4.22.2.2 CountContextsForSearchSettingResponse

The **CountContextsForSearchSettingResponse** element contains result data for a **CountContextsForSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountContextsForSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountContextsForSearchSettingResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountContextsForSearchSettingResult: The number of contexts for the search setting.

3.8.4.22.3 Complex Types

None.

3.8.4.22.4 Simple Types

None.

3.8.4.22.5 Attributes

None.

3.8.4.22.6 Groups

None.

3.8.4.22.7 Attribute Groups

None.

3.8.4.23 RemoveNamedContext

The **RemoveNamedContext** operation deletes a named search setting context from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveNamedContext">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContext" message="tns:KeywordService_RemoveNamedContext_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextResponse" message="tns:KeywordService_RemoveNamedContext_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveNamedContext_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_RemoveNamedContext_OutputMessage** response message.

3.8.4.23.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.23.1.1 KeywordService_RemoveNamedContext_InputMessage

The **KeywordService_RemoveNamedContext_InputMessage** request message initiates the operation to delete a named search setting context.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedContext
```

The SOAP body MUST contain a **RemoveNamedContext** element.

3.8.4.23.1.2 KeywordService_RemoveNamedContext_OutputMessage

The **KeywordService_RemoveNamedContext_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveNamedContext_InputMessage** message. The **KeywordService_RemoveNamedContext_InputMessage** request message initiates the operation to delete a named search setting context.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedContextR
esponse
```

The SOAP body MUST contain a **RemoveNamedContextResponse** element.

3.8.4.23.1.3 KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveNamedContext_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedContextA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.23.2 Elements

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

3.8.4.23.2.1 RemoveNamedContext

The **RemoveNamedContext** element contains input data for a **RemoveNamedContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveNamedContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

contextName: The name of the search setting context to delete.

groupId: The group identifier of the group where the search setting context to delete is found.

3.8.4.23.2.2 RemoveNamedContextResponse

The **RemoveNamedContextResponse** element contains result data for a **RemoveNamedContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveNamedContextResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.23.3 Complex Types

None.

3.8.4.23.4 Simple Types

None.

3.8.4.23.5 Attributes

None.

3.8.4.23.6 Groups

None.

3.8.4.23.7 Attribute Groups

None.

3.8.4.24 RemoveContextsByCriteria

The **RemoveContextsByCriteria** operation deletes all contexts in a group that matches certain criteria from the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="RemoveContextsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteria" message="tns:KeywordService_RemoveContextsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteriaResponse"
message="tns:KeywordService_RemoveContextsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveContextsByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_RemoveContextsByCriteria_OutputMessage** response message.

3.8.4.24.1 KeywordService_RemoveContextsByCriteria_InputMessage

The **KeywordService_RemoveContextsByCriteria_InputMessage** request message initiates the removal of contexts in a group that matches a given criteria.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextsByCri
teria
```

The SOAP body MUST contain a **RemoveContextsByCriteria** element.

3.8.4.24.2   KeywordService_RemoveContextsByCriteria_OutputMessage

The **KeywordService_RemoveContextsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveContextsByCriteria_InputMessage** message to delete the contexts that match a given criteria.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextsByCri
teriaResponse
```

The SOAP body MUST contain a **RemoveContextsByCriteriaResponse** element.

3.8.4.24.3   KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated with the **KeywordService_RemoveContextsByCriteria_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextsByCri
teriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.24.4   Elements

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

3.8.4.24.4.1   RemoveContextsByCriteria

The **RemoveContextsByCriteria** element contains input data for a **RemoveContextsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveContextsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the group in which the search setting context to delete is found.

filter: If not **null**, the protocol server MUST delete all contexts in the group that contains this substring in the search setting context name. Otherwise, the protocol server MUST delete all contexts in this group.

3.8.4.24.4.2 RemoveContextsByCriteriaResponse

The **RemoveContextsByCriteriaResponse** element contains result data for a **RemoveContextsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="RemoveContextsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.24.5 Complex Types

None.

3.8.4.24.6 Simple Types

None.

3.8.4.24.7 Attributes

None.

3.8.4.24.8 Groups

None.

3.8.4.24.9 Attribute Groups

None.

3.8.4.25 GetContextsPagedResult

The **GetContextsPagedResult** operation retrieves a list of contexts for a given search setting from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of contexts from a potentially large result set.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetContextsPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResult" message="tns:KeywordService_GetContextsPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResultResponse" message="tns:KeywordService_GetContextsPagedResult_OutputMessage"/>
```

```
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage"/>
   </wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetContextsPagedResult_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_GetContextsPagedResult_OutputMessage response message.

3.8.4.25.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.25.1.1 KeywordService_GetContextsPagedResult_InputMessage

The **KeywordService_GetContextsPagedResult_InputMessage** request message initiates the
retrieval of a list of contexts for a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextsPagedRes
ult
```

The SOAP body MUST contain a **GetContextsPagedResult** element.

3.8.4.25.1.2 KeywordService_GetContextsPagedResult_OutputMessage

The **KeywordService_GetContextsPagedResult_OutputMessage** response message is sent in
reply to the request that is initiated with the
KeywordService_GetContextsPagedResult_InputMessage message to retrieve all contexts.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextsPagedRes
ultResponse
```

The SOAP body MUST contain a **GetContextsPagedResultResponse** element.

3.8.4.25.1.3
KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_GetContextsPagedResult_InputMessage. The protocol server MUST return
this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextsPagedRes
ultAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.25.2   Elements

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

3.8.4.25.2.1   GetContextsPagedResult

The **GetContextsPagedResult** element contains input data for a **GetContextsPagedResult** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetContextsPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="field" type="tns:ContextSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the search setting group from which to retrieve contexts.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number of contexts to skip after sorting the result.

count: The number of contexts to retrieve.

filter: If not **null**, the result MUST be filtered by only including those contexts whose name contains the filter value as a substring. If **null**, no filtering is performed.

searchSettingId: The identifier of the search setting for which to retrieve contexts.

3.8.4.25.2.2   GetContextsPagedResultResponse

The **GetContextsPagedResultResponse** element contains result data for a **GetContextsPagedResult** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetContextsPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetContextsPagedResultResult" nillable="true"
type="tns:ArrayOfContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

GetContextsPagedResultResult: An array of **ContextDTO**.

3.8.4.25.3   Complex Types

None.

3.8.4.25.4   Simple Types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.25.4.1   ContextSortField

The **ContextSortField** simple type describes which elements an array of **ContextDTO** can be sorted by.

The following example specifies the structure of this simple type.

```
  <xsd:simpleType name="ContextSortField">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Name" />
      <xsd:enumeration value="LastChanged" />
    </xsd:restriction>
  </xsd:simpleType>
```

The following table specifies the valid values for **ContextSortField**.

Value	Meaning
Name	Sort the result according to the name of the search setting context.
LastChanged	Sort the result according to the time at which the search setting context was last changed.

3.8.4.25.5   Attributes

None.

3.8.4.25.6   Groups

None.

3.8.4.25.7   Attribute Groups

None.

3.8.4.26   DetachContextsFromSearchSetting

The **DetachContextsFromSearchSetting** operation detaches all contexts from a search setting on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="DetachContextsFromSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSetting"
message="tns:KeywordService_DetachContextsFromSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSettingResponse"
message="tns:KeywordService_DetachContextsFromSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_DetachContextsFromSearchSetting_InputMessage request message. When
the operation finishes successfully, the protocol server MUST respond with a
KeywordService_DetachContextsFromSearchSetting_OutputMessage response message.

3.8.4.26.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.26.1.1 KeywordService_DetachContextsFromSearchSetting_InputMessage

The **KeywordService_DetachContextsFromSearchSetting_InputMessage** request message
initiates the detaching of all contexts from a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextsFromS
earchSetting
```

The SOAP body MUST contain a **DetachContextsFromSearchSetting** element.

3.8.4.26.1.2 KeywordService_DetachContextsFromSearchSetting_OutputMessage

The **KeywordService_DetachContextsFromSearchSetting_OutputMessage** response message
is sent in reply to the request that is initiated by the
KeywordService_DetachContextsFromSearchSettings_InputMessage message to detach a
search setting context from a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextsFromS
earchSettingResponse
```

The SOAP body MUST contain a **DetachContextsFromSearchSettingResponse** element.

3.8.4.26.1.3 KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessage

The
KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessage response message is sent in reply to the request that is initiated by the
KeywordService_DetachContextsFromSearchSetting_InputMessage. The protocol server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextsFromS
earchSettingAdminExceptionWCFFault
```

3.8.4.26.2 Elements

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

3.8.4.26.2.1 DetachContextsFromSearchSetting

The **DetachContextsFromSearchSetting** element contains input data for a
DetachContextsFromSearchSetting operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachContextsFromSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

3.8.4.26.2.2 DetachContextsFromSearchSettingResponse

The **DetachContextsFromSearchSettingResponse** element contains result data for a
DetachContextsFromSearchSetting operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachContextsFromSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.26.3 Complex Types

None.

3.8.4.26.4 Simple Types

None.

3.8.4.26.5 Attributes

None.

3.8.4.26.6 Groups

None.

3.8.4.26.7 Attribute Groups

None.

3.8.4.27 DetachNamedContextFromSearchSetting

The **DetachNamedContextFromSearchSetting** operation detaches a named search setting context from a search setting.

The following example specifies the structure of this operation.

```
<wsdl:operation name="DetachNamedContextFromSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
NamedContextFromSearchSetting"
message="tns:KeywordService_DetachNamedContextFromSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
NamedContextFromSearchSettingResponse"
message="tns:KeywordService_DetachNamedContextFromSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
NamedContextFromSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultM
essage"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_DetachNamedContextFromSearchSetting_InputMessage request message.
On successful completion, the protocol server MUST respond with a
KeywordService_DetachNamedContextFromSearchSetting_OutputMessage response
message.

3.8.4.27.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.27.1.1 KeywordService_DetachNamedContextFromSearchSetting_InputMessage

The **KeywordService_DetachNamedContextFromSearchSetting_InputMessage** request message initiates the detaching of a named search setting context from a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachNamedContextF
romSearchSetting
```

The SOAP body MUST contain a **DetachNamedContextFromSearchSetting** element.

3.8.4.27.1.2 KeywordService_DetachNamedContextFromSearchSetting_OutputMessage

The **KeywordService_DetachNamedContextFromSearchSetting_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_DetachNamedContextFromSearchSetting_InputMessage** message to detach a named search setting context from a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachNamedContextF
romSearchSettingResponse
```

The SOAP body MUST contain a **DetachNamedContextFromSearchSettingResponse** element.

3.8.4.27.1.3 KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage

The **KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_DetachNamedContextFromSearchSetting_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachNamedContextF
romSearchSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.27.2 Elements

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

3.8.4.27.2.1 DetachNamedContextFromSearchSetting

The **DetachNamedContextFromSearchSetting** element contains input data for a **DetachNamedContextFromSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachNamedContextFromSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="contextName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

contextName: The name of the search setting context.

groupId: The identifier of the search setting group to which both the search setting and search setting context MUST belong.

3.8.4.27.2.2 DetachNamedContextFromSearchSettingResponse

The **DetachNamedContextFromSearchSettingResponse** element contains result data for a **DetachNamedContextFromSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachNamedContextFromSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

This element is empty.

3.8.4.27.3 Complex Types

None.

3.8.4.27.4 Simple Types

None.

3.8.4.27.5 Attributes

None.

3.8.4.27.6 Groups

None.

3.8.4.27.7 Attribute Groups

None.

3.8.4.28 AttachNamedContextToSearchSetting

The **AttachNamedContextToSearchSetting** operation attaches a named search setting context to a search setting on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AttachNamedContextToSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSetting"
message="tns:KeywordService_AttachNamedContextToSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSettingResponse"
message="tns:KeywordService_AttachNamedContextToSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMes
sage"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_AttachNamedContextToSearchSetting_InputMessage request message. On successful completion, the protocol server MUST respond with a
KeywordService_AttachNamedContextToSearchSetting_OutputMessage response message.

3.8.4.28.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.28.1.1 KeywordService_AttachNamedContextToSearchSetting_InputMessage

The **KeywordService_AttachNamedContextToSearchSetting_InputMessage** request message initiates the attaching of a named search setting context to a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachedNamedContex
tToSearchSetting
```

The SOAP body MUST contain an **AttachNamedContextToSearchSetting** element.

3.8.4.28.1.2 KeywordService_AttachNamedContextToSearchSetting_OutputMessage

The **KeywordService_AttachNamedContextToSearchSetting_OutputMessage** response message is sent in reply to the request that is initiated by the
KeywordService_AttachNamedContextToSearchSetting_InputMessage message to attach a named search setting context to a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachNamedContextT
oSearchSettingResponse
```

The SOAP body MUST contain an **AttachNamedContextToSearchSettingResponse** element.

3.8.4.28.1.3 KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMessage

The
**KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultM
essresponse** message is sent in reply to the request that is initiated by the
KeywordService_AttachNamedContextToSearchSetting_InputMessage. The protocol server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachNamedContextT
oSearchSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.28.2 Elements

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

3.8.4.28.2.1 AttachNamedContextToSearchSetting

The **AttachNamedContextToSearchSetting** element contains input data for an
AttachNamedContextToSearchSetting operation.

The following example specifies the structure of this element.

```
<xsd:element name="AttachNamedContextToSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="contextName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

contextName: The name of the search setting context.

groupId: The identifier of the search setting group to which both the search setting and search
setting context MUST belong.

3.8.4.28.2.2 AttachNamedContextToSearchSettingResponse

The **AttachNamedContextToSearchSettingResponse** element contains result data for an **AttachNamedContextToSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AttachNamedContextToSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AttachNamedContextToSearchSettingResult"
nillable="true" type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AttachNamedContextToSearchSettingResult: The elements of the search setting context that was attached.

3.8.4.28.3 Complex Types

None.

3.8.4.28.4 Simple Types

None.

3.8.4.28.5 Attributes

None.

3.8.4.28.6 Groups

None.

3.8.4.28.7 Attribute Groups

None.

3.8.4.29 AttachContextToSearchSetting

The **AttachContextToSearchSetting** operation attaches a search setting context with the given identifier to a search setting with the given identifier on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AttachContextToSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSetting"
message="tns:KeywordService_AttachContextToSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingResponse"
message="tns:KeywordService_AttachContextToSearchSetting_OutputMessage"/>
```

```
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_AttachContextToSearchSetting_InputMessage request message. When the
operation finishes successfully, the protocol server MUST respond with a
KeywordService_AttachContextToSearchSetting_OutputMessage response message.

3.8.4.29.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.29.1.1 KeywordService_AttachContextToSearchSetting_InputMessage

The **KeywordService_AttachContextToSearchSetting_InputMessage** request message
initiates the attachment of a search setting context to a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachContextToSear
chSetting
```

The SOAP body MUST contain an **AttachContextToSearchSetting** element.

3.8.4.29.1.2 KeywordService_AttachContextToSearchSetting_OutputMessage

The **KeywordService_AttachContextToSearchSetting_OutputMessage** response message is
sent in reply to the request that is initiated by the
KeywordService_AttachContextToSearchSetting_InputMessage message to attach a search
setting context to a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachContextToSear
chSettingResponse
```

The SOAP body MUST contain an **AttachContextToSearchSettingResponse** element.

3.8.4.29.1.3
KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_Fault
Message

The
KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
KeywordService_AttachContextToSearchSetting_InputMessage. The protocol server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachContextToSear
chSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.29.2 Elements

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

3.8.4.29.2.1 AttachContextToSearchSetting

The **AttachContextToSearchSetting** element contains input data for an
AttachContextToSearchSetting operation.

The following example specifies the structure of this element.

```
<xsd:element name="AttachContextToSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

contextId: The identifier of the search setting context.

3.8.4.29.2.2 AttachContextToSearchSettingResponse

The **AttachContextToSearchSettingResponse** element contains result data for an
AttachContextToSearchSetting operation.

The following example specifies the structure of this element.

```
<xsd:element name="AttachContextToSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
name ="AttachContextToSearchSettingResult" type="xsd:dateTime" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AttachContextToSearchSettingResult: The date and time at which the search setting was last
modified.

3.8.4.29.3 Complex Types

None.

3.8.4.29.4 Simple Types

None.

3.8.4.29.5 Attributes

None.

3.8.4.29.6 Groups

None.

3.8.4.29.7 Attribute Groups

None.

3.8.4.30 UpdateContext

The **UpdateContext** operation updates an existing search setting context on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="UpdateContext">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
Context" message="tns:KeywordService_UpdateContext_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextResponse" message="tns:KeywordService_UpdateContext_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_UpdateContext_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_UpdateContext_OutputMessage** response message.

3.8.4.30.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.30.1.1 KeywordService_UpdateContext_InputMessage

The **KeywordService_UpdateContext_InputMessage** request message initiates the operation to update an existing search setting context.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateContext
```

The SOAP body MUST contain an **UpdateContext** element.

3.8.4.30.1.2 KeywordService_UpdateContext_OutputMessage

The **KeywordService_UpdateContext_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateContext_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateContextRespon
se
```

The SOAP body MUST contain an **UpdateContextResponse** element.

3.8.4.30.1.3 KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage

The **KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateContext_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateContextAdminE
xceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.30.2 Elements

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

3.8.4.30.2.1 UpdateContext

The **UpdateContext** element contains input data for an **UpdateContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="context" nillable="true" type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

context: The elements of the search setting context to be updated. The protocol server MUST update the search setting context with the values from the **Name** and **Description** elements.

3.8.4.30.2.2 UpdateContextResponse

The **UpdateContextResponse** element contains result data for an **UpdateContext** operation.

The following example specifies the structure of this element.

```
<xsd:element name="UpdateContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateContextResult" nillable="true"
type="tns:ContextDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

UpdateContextResult: The elements of the search setting context that was updated. The **Name**, **Description** and **Group** elements MUST have the same values as those in the **UpdateContext** element. The protocol server MUST set the **lastChanged** element to the date and time of the update operation, in UTC.

3.8.4.30.3 Complex Types

None.

3.8.4.30.4 Simple Types

None.

3.8.4.30.5 Attributes

None.

3.8.4.30.6 Groups

None.

3.8.4.30.7 Attribute Groups

None.

3.8.4.31 DetachContextFromSearchSetting

The **DetachContextFromSearchSetting** operation detaches a context from a search setting on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="DetachContextFromSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSetting"
message="tns:KeywordService_DetachContextFromSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingResponse"
message="tns:KeywordService_DetachContextFromSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMessag
e"/>
```

```
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_DetachContextFromSearchSetting_InputMessage request message. On
successful completion, the protocol server MUST respond with a
KeywordService_DetachContextFromSearchSetting_OutputMessage response message.

3.8.4.31.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.31.1.1 KeywordService_DetachContextFromSearchSetting_InputMessage

The **KeywordService_DetachContextFromSearchSetting_InputMessage** request message
initiates the detaching of a search setting context from a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextFromSe
archSetting
```

The SOAP body MUST contain a **DetachContextFromSearchSetting** element.

3.8.4.31.1.2 KeywordService_DetachContextFromSearchSetting_OutputMessage

The **KeywordService_DetachContextFromSearchSetting_OutputMessage** response message
is sent in reply to the request that is initiated by the
KeywordService_DetachContextFromSearchSetting_InputMessage.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextFromSe
archSettingResponse
```

The SOAP body MUST contain a **DetachContextFromSearchSettingResponse** element.

3.8.4.31.1.3
KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_Fa
ultMessage

The
**KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMess
age** response message is sent in reply to the request that is initiated by the
KeywordService_DetachContextFromSearchSetting_InputMessage. The protocol server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachContextFromSe
archSettingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.31.2 Elements

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

3.8.4.31.2.1 DetachContextFromSearchSetting

The **DetachContextFromSearchSetting** element contains input data for a **DetachContextFromSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachContextFromSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

contextId: The identifier of the search setting context.

3.8.4.31.2.2 DetachContextFromSearchSettingResponse

The **DetachContextFromSearchSettingResponse** element contains result data for a **DetachContextFromSearchSetting** operation.

The following example specifies the structure of this element.

```
<xsd:element name="DetachContextFromSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="DetachContextFromSearchSettingResult"
type="xsd:dateTime" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

DetachContextFromSearchSettingResult: The date and time at which the search setting was last modified, in UTC.

3.8.4.31.3 Complex Types

None.

3.8.4.31.4 Simple Types

None.

3.8.4.31.5 Attributes

None.

3.8.4.31.6 Groups

None.

3.8.4.31.7 Attribute Groups

None.

3.8.4.32 AddSynonym

The **AddSynonym** operation adds a synonym to a keyword on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="AddSynonym">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onym" message="tns:KeywordService_AddSynonym_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymResponse" message="tns:KeywordService_AddSynonym_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddSynonym_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_AddSynonym_OutputMessage** response message.

3.8.4.32.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.32.1.1 KeywordService_AddSynonym_InputMessage

The **KeywordService_AddSynonym_InputMessage** request message initiates the addition of a synonym.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSynonym
```

The SOAP body MUST contain an **AddSynonym** element.

3.8.4.32.1.2 KeywordService_AddSynonym_OutputMessage

The **KeywordService_AddSynonym_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddSynonym_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSynonymResponse
```

The SOAP body MUST contain an **AddSynonymResponse** element.

3.8.4.32.1.3 KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddSynonym_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSynonymAdminExce
ptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.32.2 Elements

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

3.8.4.32.2.1 AddSynonym

The **AddSynonym** element contains input data for an **AddSynonym** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddSynonym">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="synonym" nillable="true" type="tns:SynonymDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

synonym: The properties of the synonym to add.

3.8.4.32.2.2 AddSynonymResponse

The **AddSynonymResponse** element contains result data for an **AddSynonym** operation.

The following example specifies the structure of this element.

```
<xsd:element name="AddSynonymResponse">
  <xsd:complexType>
   <xsd:sequence>
     <xsd:element minOccurs="0" name="AddSynonymResult" nillable="true"
type="tns:SynonymDTO"/>
   </xsd:sequence>
  </xsd:complexType>
 </xsd:element>
```

AddSynonymResult: The elements of the added synonym. The elements MUST have the same values as those in the **AddSynonym** element that initiated this operation. The protocol server MUST

ensure the uniqueness of the synonym term for the keyword. In addition, the following properties MUST be set by the protocol server:

lastChanged: The date and time of creation of the group on the protocol server, in UTC.

Id: A unique identifier for the synonym. This identifier MUST be unique across search setting groups.

3.8.4.32.3 Complex Types

None.

3.8.4.32.4 Simple Types

None.

3.8.4.32.5 Attributes

None.

3.8.4.32.6 Groups

None.

3.8.4.32.7 Attribute Groups

None.

3.8.4.33 GetSynonymPagedResult

The **GetSynonymPagedResult** operation retrieves a list of synonyms for a given keyword from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of synonyms from a potentially large result set.

The following example specifies the structure of this operation.

```
<wsdl:operation name="GetSynonymPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResult" message="tns:KeywordService_GetSynonymPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultResponse" message="tns:KeywordService_GetSynonymPagedResult_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetSynonymPagedResult_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_GetSynonymPagedResult_OutputMessage** response message.

3.8.4.33.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.33.1.1   KeywordService_GetSynonymPagedResult_InputMessage

The **KeywordService_GetSynonymPagedResult_InputMessage** request message initiates the retrieval.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSynonymPagedresu
lt
```

The SOAP body MUST contain a **GetSynonymPagedResult** element.

3.8.4.33.1.2   KeywordService_GetSynonymPagedResult_OutputMessage

The **KeywordService_GetSynonymPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetSynonymPagedResult_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSynonymPagedResu
ltResponse
```

The SOAP body MUST contain a **GetSynonymPagedResultResponse** element.

3.8.4.33.1.3   KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetSynonymPagedResult_InputMessage**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSynonymPagedResu
ltAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.33.2   Elements

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

3.8.4.33.2.1   GetSynonymPagedResult

The **GetSynonymPagedResult** element contains input data for a **GetSynonymPagedResult** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetSynonymPagedResult">
```

```
   <xsd:complexType>
     <xsd:sequence>
       <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
       <xsd:element minOccurs="0" name="field" type="tns:SynonymSortField"/>
       <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
       <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
       <xsd:element minOccurs="0" name="count" type="xsd:int"/>
       <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
     </xsd:sequence>
   </xsd:complexType>
 </xsd:element>
```

keywordId: The identifier of the keyword from which to retrieve synonyms.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number of synonyms to skip after sorting the result.

count: The number of synonyms to retrieve.

filter: If not **null**, only the synonyms for the keyword whose term contains this substring MUST be included. If **null**, no filtering is performed.

3.8.4.33.2.2 GetSynonymPagedResultResponse

The **GetSynonymPagedResultResponse** element contains result data for a **GetSynonymPagedResult** operation.

The following example specifies the structure of this element.

```
<xsd:element name="GetSynonymPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetSynonymPagedResultResult" nillable="true"
type="tns:ArrayOfSynonymDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetSynonymPagedResultResult: An array of **SynonymDTO** elements.

3.8.4.33.3 Complex Types

None.

3.8.4.33.4 Simple Types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.33.4.1 SynonymSortField

The following example shows the **SynonymSortField** type.

```xsd
 <xsd:simpleType name="SynonymSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDate" />
    <xsd:enumeration value="Term">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **SynonymSortField**.

Value	Meaning
Name	Sort the result according to the name of each synonym.
LastChanged	Sort the result by the time at which the result elements of each synonym were last changed.
StartDate	Sort the result by the start date of each synonym.
EndDate	Sort the result by the end date of each synonym.
Term	Sort the result according to the term of each synonym.

3.8.4.33.4.2 ArrayOfSynonymDTO

The **ArrayOfSynonymDTO** complex type contains an array of **SynonymDTO**. This array contains zero, one, or more synonym elements.

The following example specifies the structure of this complex type.

```xsd
<xsd:complexType name="ArrayOfSynonymDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="SynonymDTO" nillable="true"
type="tns:SynonymDTO" />
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.33.5 Attributes

None.

3.8.4.33.6 Groups

None.

3.8.4.33.7 Attribute Groups

None.

3.8.4.34 CountSearchSettingsByCriteria

The **CountSearchSettingsByCriteria** operation counts search settings of a given type for a specific keyword that satisfies certain criteria on the protocol server. This operation is shown in the following example.

```
<wsdl:operation name="CountSearchSettingsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteria"
message="tns:KeywordService_CountSearchSettingsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaResponse"
message="tns:KeywordService_CountSearchSettingsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage
"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_CountSearchSettingsByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_CountSearchSettingsByCriteria_OutputMessage** response message.

3.8.4.34.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.34.1.1 KeywordService_CountSearchSettingsByCriteria_InputMessage

The **KeywordService_CountSearchSettingsByCriteria_InputMessage** request message initiates the counting of search settings.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ByCriteria
```

The SOAP body MUST contain a **CountSearchSettingsByCriteria** element.

3.8.4.34.1.2 KeywordService_CountSearchSettingsByCriteria_OutputMessage

The **KeywordService_CountSearchSettingsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountSearchSettingsByCriteria_InputMessage** message to count search settings of a given type.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ByCriteriaResponse
```

The SOAP body MUST contain a **CountSearchSettingsByCriteriaResponse** element.

3.8.4.34.1.3 KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_Fault Message

The
KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
KeywordService_CountSearchSettingsByCriteria_InputMessage. The protocol server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ByCriteriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.34.2 Elements

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

3.8.4.34.2.1 CountSearchSettingsByCriteria

The **CountSearchSettingsByCriteria** element contains input data for a
CountSearchSettingsByCriteria operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountSearchSettingsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

keywordId: The identifier of the keyword. This element MUST be present.

type: The search setting type. This element MUST be present.

filter: If not **null**, only the search settings whose name contains this substring are counted. If **null**, no filtering is performed.

3.8.4.34.2.2   CountSearchSettingsByCriteriaResponse

The **CountSearchSettingsByCriteriaResponse** element contains result data for a **CountSearchSettingsByCriteria** operation.

The following example specifies the structure of this element.

```
<xsd:element name="CountSearchSettingsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountSearchSettingsByCriteriaResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountSearchSettingsByCriteriaResult: The number of search settings that match the criteria.

3.8.4.34.3   Complex Types

None.

3.8.4.34.4   Simple Types

None.

3.8.4.34.5   Attributes

None.

3.8.4.34.6   Groups

None.

3.8.4.34.7   Attribute Groups

None.

3.8.4.35   UpdateSearchSetting

The **UpdateSearchSetting** operation updates a search setting on the protocol server.

The following example specifies the structure of this operation.

```
<wsdl:operation name="UpdateSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSetting" message="tns:KeywordService_UpdateSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingResponse" message="tns:KeywordService_UpdateSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_UpdateSearchSetting_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_UpdateSearchSetting_OutputMessage** response message.

3.8.4.35.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.35.1.1 KeywordService_UpdateSearchSetting_InputMessage

The **KeywordService_UpdateSearchSetting_InputMessage** request message initiates the update.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateSearchSetting
```

The SOAP body MUST contain an **UpdateSearchSetting** element.

3.8.4.35.1.2 KeywordService_UpdateSearchSetting_OutputMessage

The **KeywordService_UpdateSearchSetting_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateSearchSetting_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateSearchSetting
Response
```

The SOAP body MUST contain an **UpdateSearchSettingResponse** element.

3.8.4.35.1.3 KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage

The **KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdateSearchSetting_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateSearchSetting
AdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.35.2 Elements

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

3.8.4.35.2.1 UpdateSearchSetting

The **UpdateSearchSetting** element contains input data for an **UpdateSearchSetting** operation.

```
<xsd:element name="UpdateSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSetting" nillable="true"
type="tns:SearchSettingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSetting: The elements of the search setting to update. This element MUST be present, it MUST not be **null** and it MUST contain the following elements:

Id: The identifier of the search setting.

Name: The name of the search setting.

Group: The search setting group of the search setting. The **Id** element of the search setting group MUST contain the identifier of an existing search setting group.

keyword: The keyword to which the search setting is associated. The **Id** element of the keyword MUST contain the identifier of an existing keyword.

The protocol server MUST update the search setting that is identified by the **Id** element with the **Name**, **Description, ValidTo, ValidFrom,** and keyword values in addition to the elements specified in the following table, depending on the type of search setting that is being updated.

Search setting type	Element
Synonym	Term ExpansionType
Featured content Best bet	Position Teaser TeaserContentType Uri
Promotion	BoostValue

3.8.4.35.2.2 UpdateSearchSettingResponse

The **UpdateSearchSettingResponse** element contains result data for an **UpdateSearchSetting** operation.

```
<xsd:element name="UpdateSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateSearchSettingResult" nillable="true"
type="tns:SearchSettingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
    </xsd:element>
```

UpdateSearchSettingResult: The values of the updated group. The values MUST be the same as in the **SearchSettingDTO** used to update the search setting, except **LastUpdated** which MUST be the date and time of when the search setting was updated, in UTC.

3.8.4.35.3 Complex Types

None.

3.8.4.35.4 Simple Types

None.

3.8.4.35.5 Attributes

None.

3.8.4.35.6 Groups

None.

3.8.4.35.7 Attribute Groups

None.

3.8.4.36 ContainsSearchSettingByCriteria

The **ContainsSearchSettingByCriteria** operation checks whether a keyword on the protocol server contains a named search setting of a given type with a certain criterion.

```
<wsdl:operation name="ContainsSearchSettingByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteria"
message="tns:KeywordService_ContainsSearchSettingByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteriaResponse"
message="tns:KeywordService_ContainsSearchSettingByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_ContainsSearchSettingByCriteria_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_ContainsSearchSettingByCriteria_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_ContainsSearchSettingByCriteria_OutputMessage** response message.

3.8.4.36.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.36.1.1 KeywordService_ContainsSearchSettingByCriteria_InputMessage

The **KeywordService_ContainsSearchSettingByCriteria_InputMessage** request message initiates the operation to make a containment check.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngByCriteria
```

The SOAP body MUST contain a **ContainsSearchSettingByCriteria** element.

3.8.4.36.1.2 KeywordService_ContainsSearchSettingByCriteria_OutputMessage

The **KeywordService_ContainsSearchSettingByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_ContainsSearchSettingByCriteria_InputMessage** message to check for search setting containment.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngByCriteriaResponse
```

The SOAP body MUST contain a **ContainsSearchSettingByCriteriaResponse** element.

3.8.4.36.1.3 KeywordService_ContainsSearchSettingByCriteria_AdminExceptionWCFFault_FaultMessage

The response message is sent in reply to the request that is initiated by the **KeywordService_ContainsSearchSetting_InputMessage message**. This response message MUST be returned by the protocol server when something goes wrong.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngByCriteriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.36.2 Elements

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

3.8.4.36.2.1 ContainsSearchSettingByCriteria

The **ContainsSearchSettingByCriteria** element contains input data for a **ContainsSearchSettingByCriteria** operation.

```xml
<xsd:element name="ContainsSearchSettingByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
```

```
        <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

searchSettingName: The name of the search setting.

keywordId: Identifier of the keyword.

type: The search setting type.

3.8.4.36.2.2   ContainsSearchSettingByCriteriaResponse

The **ContainsSearchSettingByCriteriaResponse** element contains result data for a
ContainsSearchSettingByCriteria operation.

```
  <xsd:element name="ContainsSearchSettingByCriteriaResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContainsSearchSettingByCriteriaResult"
  type="xsd:boolean"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

ContainsSearchSettingByCriteriaResult: The value is **true** if the **keyword** contains a search
setting with the given type and criteria; otherwise, the value is **false**.

3.8.4.36.3   Complex Types

None.

3.8.4.36.4   Simple Types

None.

3.8.4.36.5   Attributes

None.

3.8.4.36.6   Groups

None.

3.8.4.36.7   Attribute Groups

None.

3.8.4.37   ContainsSearchSettingById

The **ContainsSearchSettingById** operation checks whether a search setting group contains a
search setting with a given identifier. Additionally, this operation optionally checks whether the
search setting is associated with a given search setting context.

```
<wsdl:operation name="ContainsSearchSettingById">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingById" message="tns:KeywordService_ContainsSearchSettingById_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByIdResponse"
message="tns:KeywordService_ContainsSearchSettingById_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByIdAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_ContainsSearchSettingById_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_ContainsSearchSettingById_OutputMessage response message.

3.8.4.37.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.37.1.1   KeywordService_ContainsSearchSettingById_InputMessage

The **ContainsSearchSettingByCriteriaResponse** request message initiates the containment
check.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngById
```

The SOAP body MUST contain a **ContainsSearchSettingById** element.

3.8.4.37.1.2   KeywordService_ContainsSearchSettingById_OutputMessage

The **KeywordService_ContainsSearchSettingById_OutputMessage** response message is sent
in reply to the request that is initiated by the
KeywordService_ContainsSearchSettingById_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngByIdResponse
```

The SOAP body MUST contain a **ContainsSearchSettingByIdResponse** element.

3.8.4.37.1.3 KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage

The KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the

KeywordService_ContainsSearchSettingById_InputMessage message. The protocol server MUST respond with this message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsSearchSetti
ngByIdAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.37.2 Elements

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

3.8.4.37.2.1 ContainsSearchSettingById

The **ContainsSearchSettingById** element contains input data for a **ContainsSearchSettingById** operation.

```
<xsd:element name="ContainsSearchSettingById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="contextId" nillable="true"          type="xsd:long"
/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting.

contextId: The identifier of a search setting context or **null**. If not **null**, the protocol server MUST additionally verify whether the search setting is associated with the search setting context.

3.8.4.37.2.2 ContainsSearchSettingByIdResponse

The **ContainsSearchSettingByIdResponse** element contains result data for a **ContainsSearchSettingById** operation.

```
<xsd:element name="ContainsSearchSettingByIdResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsSearchSettingByIdResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsSearchSettingByIdResult: The value is **true** if the search setting group contains a search setting with the given identifier; otherwise, the value is **false**. If a search setting context identifier is specified in the request, the result MUST be **true** if the search setting is associated with the search setting context.

3.8.4.37.3 Complex Types

None.

3.8.4.37.4 Simple Types

None.

3.8.4.37.5 Attributes

None.

3.8.4.37.6 Groups

None.

3.8.4.37.7 Attribute Groups

None.

3.8.4.38 RemoveSearchSettingsByCriteria

The **RemoveSearchSettingsByCriteria** operation deletes a search setting that satisfies a certain criteria.

```
<wsdl:operation name="RemoveSearchSettingsByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteria"
message="tns:KeywordService_RemoveSearchSettingsByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteriaResponse"
message="tns:KeywordService_RemoveSearchSettingsByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessag
e"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveSearchSettingsByCriteria_InputMessage request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveSearchSettingsByCriteria_OutputMessage response message.

3.8.4.38.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.38.1.1 KeywordService_RemoveSearchSettingsByCriteria_InputMessage

The **KeywordService_RemoveSearchSettingsByCriteria_InputMessage** request message initiates the removal of the search settings criteria.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sByCriteria
```

The SOAP body MUST contain a **RemoveSearchSettingsByCriteria** element.

3.8.4.38.1.2 KeywordService_RemoveSearchSettingsByCriteria_OutputMessage

The **KeywordService_RemoveSearchSettingsByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveSearchSettingsByCriteria_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sByCriteriaResponse
```

The SOAP body MUST contain a **RemoveSearchSettingsByCriteriaResponse** element.

3.8.4.38.1.3 KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveSearchSettingsByCriteria_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sByCriteriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.38.2 Elements

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

3.8.4.38.2.1 RemoveSearchSettingsByCriteria

The **RemoveSearchSettingsByCriteria** element contains input data for a **RemoveSearchSettingsByCriteria** operation.

```
<xsd:element name="RemoveSearchSettingsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

keywordId: The identifier of the **keyword** from which to delete search settings. This element MUST be present and it MUST be the identifier of an existing search setting.

type: The type of the search settings to delete. This element MUST be present.

filter: If this value is not **null**, only the search settings whose name contains this substring are deleted. If this value is **null**, no filtering is performed.

3.8.4.38.2.2   RemoveSearchSettingsByCriteriaResponse

The **RemoveSearchSettingsByCriteriaResponse** element contains result data for a **RemoveSearchSettingsByCriteria** operation.

```
  <xsd:element name="RemoveSearchSettingsByCriteriaResponse">
    <xsd:complexType>
      <xsd:sequence/>
    </xsd:complexType>
  </xsd:element>
```

The element is empty.

3.8.4.38.3   Complex Types

None.

3.8.4.38.4   Simple Types

None.

3.8.4.38.5   Attributes

None.

3.8.4.38.6   Groups

None.

3.8.4.38.7   Attribute Groups

None.

3.8.4.39   RemoveSearchSetting

The **RemoveSearchSetting** operation deletes a search setting from the protocol server.

```
  <wsdl:operation name="RemoveSearchSetting">
    <wsdl:input
  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSetting" message="tns:KeywordService_RemoveSearchSetting_InputMessage"/>
    <wsdl:output
  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingResponse" message="tns:KeywordService_RemoveSearchSetting_OutputMessage"/>
```

```
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage"/>
   </wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemoveSearchSetting_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveSearchSetting_OutputMessage response message.

3.8.4.39.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.39.1.1 KeywordService_RemoveSearchSetting_InputMessage

The **KeywordService_RemoveSearchSetting_InputMessage** request message initiates the
removal of the search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
```

The SOAP body MUST contain a **RemoveSearchSetting** element.

3.8.4.39.1.2 KeywordService_RemoveSearchSetting_OutputMessage

The **KeywordService_RemoveSearchSetting_OutputMessage** response message is sent in
reply to the request that is initiated by the
KeywordService_RemoveSearchSetting_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
Response
```

The SOAP body MUST contain a **RemoveSearchSettingResponse** element.

3.8.4.39.1.3
KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_RemoveSearchSetting_InputMessage message. The protocol server MUST
return this message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
AdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.39.2   Elements

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

3.8.4.39.2.1   RemoveSearchSetting

The **RemoveSearchSetting** element contains input data for a **RemoveSearchSetting** operation.

```
<xsd:element name="RemoveSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingId: The identifier of the search setting to delete.

3.8.4.39.2.2   RemoveSearchSettingResponse

The **RemoveSearchSettingResponse** element contains result data for a **RemoveSearchSetting** operation.

```
<xsd:element name="RemoveSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveSearchSettingResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveSearchSettingResult: The value is **true** if the search setting is deleted. Otherwise, the value is **false** if the search setting does not exist.

3.8.4.39.3   Complex Types

None.

3.8.4.39.4   Simple Types

None.

3.8.4.39.5   Attributes

None.

3.8.4.39.6   Groups

None.

3.8.4.39.7   Attribute Groups

None.

3.8.4.40   RemoveSearchSettingsFromGroupByCriteria

The **RemoveSearchSettingsFromGroupByCriteria** operation removes any search settings that satisfy a certain criterion.

```
<wsdl:operation name="RemoveSearchSettingsFromGroupByCriteria">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteria"
message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaResponse"
message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_AdminExceptionWCFFault_Fa
ultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage response message.

3.8.4.40.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.40.2   KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage

The **KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage** request message initiates the removal of the search settings.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sFromGroupByCriteria
```

The SOAP body MUST contain a **RemoveSearchSettingsFromGroupByCriteria** element.

3.8.4.40.3   KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage

The **KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage** response message is sent in reply to the request that is initiated by the
KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage message. The
KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage request message initiates the operation to remove search settings.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sFromGroupByCriteriaResponse
```

The SOAP body MUST contain a **RemoveSearchSettingsFromGroupByCriteriaResponse**
element.

3.8.4.40.3.1 KeywordService_RemoveSearchSettingsFromGroupByCriteria_AdminExceptionWCFFault_FaultMessage

The response message is sent in reply to the request that is initiated by the
KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage message. The
protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveSearchSetting
sFromGroupByCriteriaAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.40.4 Elements

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

3.8.4.40.4.1 RemoveSearchSettingsFromGroupByCriteria

The **RemoveSearchSettingsFromGroupByCriteria** element contains input data for a
RemoveSearchSettingsFromGroupByCriteria operation.

```xsd
<xsd:element name="RemoveSearchSettingsFromGroupByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="global" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the group from which to delete search settings.

type: The type of the search settings to delete.

filter: If not **null**, only the search settings whose term contains this substring MUST be deleted. If
null, no filtering is performed.

global: If **true**, the search settings that are not associated with a keyword MUST also be deleted.

3.8.4.40.4.2 RemoveSearchSettingsFromGroupByCriteriaResponse

The **RemoveSearchSettingsFromGroupByCriteria** element contains result data for a **RemoveSearchSettingsFromGroupByCriteria** operation.

```
<xsd:element name="RemoveSearchSettingsFromGroupByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.40.5 Complex Types

None.

3.8.4.40.6 Simple Types

None.

3.8.4.40.7 Attributes

None.

3.8.4.40.8 Groups

None.

3.8.4.40.9 Attribute Groups

None.

3.8.4.41 RemoveNamedSearchSettingByType

The **RemoveNamedSearchSettingByType** operation deletes a named search setting of the specified type from the protocol server.

```
<wsdl:operation name="RemoveNamedSearchSettingByType">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByType"
message="tns:KeywordService_RemoveNamedSearchSettingByType_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByTypeResponse"
message="tns:KeywordService_RemoveNamedSearchSettingByType_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByTypeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault_FaultMessag
e"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveNamedSearchSettingByType_InputMessage request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveNamedSearchSettingByType_OutputMessage response message.

3.8.4.41.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.41.1.1 KeywordService_RemoveNamedSearchSettingByType_InputMessage

The **KeywordService_RemoveNamedSearchSettingByType_InputMessage** request message initiates the removal of the named search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedSearchSe
ttingByType
```

The SOAP body MUST contain a **RemoveNamedSearchSettingByType** element.

3.8.4.41.1.2 KeywordService_RemoveNamedSearchSettingByType_OutputMessage

The **KeywordService_RemoveNamedSearchSettingByType_OutputMessage** response message is sent in reply to the request that is initiated by the
KeywordService_RemoveNamedSearchSettingByType_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedSearchSe
ttingByTypeResponse
```

The SOAP body MUST contain a **RemoveNamedSearchSettingByTypeResponse** element.

3.8.4.41.1.3 KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault _FaultMessage

The
KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault_FaultMe ssage response message is sent in reply to the request that is initiated by the
KeywordService_RemoveNamedSearchSettingByType_InputMessage message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveNamedSearchSe
ttingByTypeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.41.2   Elements

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

3.8.4.41.2.1   RemoveNamedSearchSettingByType

The **RemoveNamedSearchSettingByType** element contains input data for a **RemoveNamedSearchSettingByType** operation.

```
<xsd:element name="RemoveNamedSearchSettingByType">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingName: The name of the search setting. This element MUST be present, it MUST NOT be **null** and it MUST be the name of an existing search setting.

keywordId: The identifier of the **keyword**. This element MUST be present and it MUST be the identifier of an existing **keyword**.

type: The type of the search setting. This element MUST be present.

3.8.4.41.2.2   RemoveNamedSearchSettingByTypeResponse

The **RemoveNamedSearchSettingByType** element contains result data for a **RemoveNamedSearchSettingByType** operation.

```
<xsd:element name="RemoveNamedSearchSettingByTypeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveNamedSearchSettingByTypeResult" nillable="true"
type="xsd:dateTime"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveNamedSearchSettingByTypeResult: The date and time at which the named search setting was deleted from the protocol server.

3.8.4.41.3   Complex Types

None.

3.8.4.41.4   Simple Types

None.

3.8.4.41.5 Attributes

None.

3.8.4.41.6 Groups

None.

3.8.4.41.7 Attribute Groups

None.

3.8.4.42 AddSearchSetting

The **AddSearchSetting** operation adds a search setting to the protocol server.

```
<wsdl:operation name="AddSearchSetting">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSetting" message="tns:KeywordService_AddSearchSetting_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingResponse" message="tns:KeywordService_AddSearchSetting_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddSearchSetting_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_AddSearchSetting_OutputMessage** response message.

3.8.4.42.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.42.1.1 KeywordService_AddSearchSetting_InputMessage

The **KeywordService_AddSearchSetting_InputMessage** request message initiates the addition of a search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSearchSetting
```

The SOAP body MUST contain an **AddSearchSetting** element.

3.8.4.42.1.2 KeywordService_AddSearchSetting_OutputMessage

The **KeywordService_AddSearchSetting_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddSearchSetting_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSearchSettingRes
ponse
```

The SOAP body MUST contain an **AddSearchSettingResponse** element.

3.8.4.42.1.3 KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddSearchSetting_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSearchSettingAdm
inExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.42.2 Elements

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

3.8.4.42.2.1 AddSearchSetting

The **AddSearchSetting** element contains input data for an **AddSearchSetting** operation.

```
<xsd:element name="AddSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSetting" nillable="true"
type="tns:SearchSettingDTO"/>
      <xsd:element minOccurs="0" name="contextId" nillable="true" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSetting: The values of the search setting to add. This element MUST be present and it MUST NOT be **null**. The search setting MUST be one of the following extensions of **SearchSettingDTO**: **SynonymDTO**, **PromotionDTO**, **BestBetDTO** or **FeaturedContentDTO**. The search setting MUST include the **Name**, **keyword** and **Group** elements. The **Id** element of **keyword** MUST be the identifier of an existing **keyword**. The **Id** element of **Group** MUST be the identifier of an existing search setting group. Depending on the type of the search setting, the elements that are specified in the table in section 3.8.4.35.2.1 MUST also be included.

contextId: The identifier of a context to which this search setting is attached. This value MUST be **null** if no context attachment is to take place.

3.8.4.42.2.2 AddSearchSettingResponse

The **AddSearchSettingResponse** element contains result data for an **AddSearchSetting** operation.

```
<xsd:element name="AddSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddSearchSettingResult" nillable="true"
type="tns:SearchSettingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddSearchSettingResult: The added search setting. The element MUST be present, it MUST not be **null** and it MUST have the same type and values as the search setting element of the **AddSearchSetting** element that initiated this operation. In addition, the following properties MUST be set by the protocol server:

LastChanged: The date and time at which the search setting was created on the protocol server, in UTC.

Id: A unique identifier for the search setting. This identifier MUST be unique across search setting groups.

3.8.4.42.3 Complex Types

None.

3.8.4.42.4 Simple Types

None.

3.8.4.42.5 Attributes

None.

3.8.4.42.6 Groups

None.

3.8.4.42.7 Attribute Groups

None.

3.8.4.43 GetSearchSettingByNameAndType

The **GetSearchSettingByNameAndType** operation retrieves a named search setting of the specified type from the protocol server.

```
<wsdl:operation name="GetSearchSettingByNameAndType">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingByNameAndType"
message="tns:KeywordService_GetSearchSettingByNameAndType_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingByNameAndTypeResponse"
message="tns:KeywordService_GetSearchSettingByNameAndType_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
```

```
rchSettingByNameAndTypeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_FaultMessage
"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_GetSearchSettingByNameAndType_InputMessage request message. On
successful completion, the protocol server MUST respond with a
KeywordService_GetSearchSettingByNameAndType_OutputMessage response message.

3.8.4.43.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.43.1.1 KeywordService_GetSearchSettingByNameAndType_InputMessage

The **KeywordService_GetSearchSettingByNameAndType_InputMessage** request message
initiates the retrieval of the search setting.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingByN
ameAndType
```

The SOAP body MUST contain a **GetSearchSettingByNameAndType** element.

3.8.4.43.1.2 KeywordService_GetSearchSettingByNameAndType_OutputMessage

The **KeywordService_GetSearchSettingByNameAndType_OutputMessage** response message
is sent in reply to the request that is initiated by the
KeywordService_GetSearchSettingByNameAndType_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingByN
ameAndTypeResponse
```

The SOAP body MUST contain a **GetSearchSettingByNameAndTypeResponse** element.

3.8.4.43.1.3
KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_F
aultMessage

The
**KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_FaultMess
age** response message is sent in reply to the request that is initiated by the
KeywordService_GetSearchSettingByNameAndType_InputMessage message. The protocol
server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingByN
ameAndTypeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.43.2 Elements

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

3.8.4.43.2.1 GetSearchSettingByNameAndType

The **GetSearchSettingByNameAndType** element contains input data for a **GetSearchSettingByNameAndType** operation.

```
<xsd:element name="GetSearchSettingByNameAndType">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

searchSettingName: The name of the search setting.

keywordId: The identifier of the **keyword**.

type: The type of the search setting.

3.8.4.43.2.2 GetSearchSettingByNameAndTypeResponse

The **GetSearchSettingByNameAndTypeResponse** element contains result data for a **GetSearchSettingByNameAndType** operation.

```
<xsd:element name="GetSearchSettingByNameAndTypeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetSearchSettingByNameAndTypeResult" nillable="true"
type="tns:SearchSettingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetSearchSettingByNameAndTypeResult: The elements of the search setting that was retrieved.

3.8.4.43.3 Complex Types

None.

3.8.4.43.4 Simple Types

None.

3.8.4.43.5 Attributes

None.

3.8.4.43.6 Groups

None.

3.8.4.43.7 Attribute Groups

None.

3.8.4.44 GetSearchSettingPagedResult

The **GetSearchSettingPagedResult** operation retrieves a list of search settings from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of search settings from a potentially large result set.

```
<wsdl:operation name="GetSearchSettingPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResult"
message="tns:KeywordService_GetSearchSettingPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResultResponse"
message="tns:KeywordService_GetSearchSettingPagedResult_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_FaultMessage"/
>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetSearchSettingPagedResult_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_GetSearchSettingPagedResult_OutputMessage** response message.

3.8.4.44.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.44.1.1 KeywordService_GetSearchSettingPagedResult_InputMessage

The **KeywordService_GetSearchSettingPagedResult_InputMessage** request message initiates the retrieval of the search settings.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingPag
edResult
```

The SOAP body MUST contain a **GetSearchSettingPagedResult** element.

3.8.4.44.1.2 KeywordService_GetSearchSettingPagedResult_OutputMessage

The **KeywordService_GetSearchSettingPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetSearchSettingPagedResult_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingPag
edResultResponse
```

The SOAP body MUST contain a **GetSearchSettingPagedResultResponse** element.

3.8.4.44.1.3 KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_Fault Message

The **KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetSearchSettingPagedResult_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSearchSettingPag
edResultAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.44.2 Elements

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

3.8.4.44.2.1 GetSearchSettingPagedResult

The **GetSearchSettingPagedResult** element contains input data for a **GetSearchSettingPagedResult** operation.

```xml
<xsd:element name="GetSearchSettingPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="field" type="tns:SearchSettingSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="global" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      <xsd:element minOccurs="0" name="contextId" nillable="true" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
```

```
        </xsd:element>
```

groupId: The identifier of the group from which to retrieve search settings.

field: The sort field in the result set.

direction: The sort direction.

offset: The number of search settings to skip after sorting the result.

count: The number of search settings to retrieve.

filter: If not **null**, only the search settings whose term contains this substring are retrieved. If **null**, no filtering is performed.

global: If **true**, the search settings that are not associated with a **keyword** MUST also be retrieved.

type: The type of the search settings to retrieve.

contextId: The identifier of a search setting context or **null**, If this value is not **null**, the protocol server MUST retrieve only the search settings that are associated with the search setting context.

3.8.4.44.2.2   GetSearchSettingPagedResultResponse

The **GetSearchSettingPagedResult** element contains result data for a **GetSearchSettingPagedResult** operation.

```
<xsd:element name="GetSearchSettingPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetSearchSettingPagedResultResult" nillable="true"
type="tns:ArrayOfSearchSettingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetSearchSettingPagedResultResult: An array of the elements that satisfy the query.

3.8.4.44.3   Complex Types

None.

3.8.4.44.4   Simple Types

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

3.8.4.44.4.1   SearchSettingSortField

The following example shows the **SearchSettingSortField** type.

```
<xsd:simpleType name="SearchSettingSortField">
 <xsd:restriction base="xsd:string">
   <xsd:enumeration value="Name" />
   <xsd:enumeration value="LastChanged" />
   <xsd:enumeration value="StartDate" />
```

```
              <xsd:enumeration value="EndDate" />
              <xsd:enumeration value="ManagedResultUri" />
              <xsd:enumeration value="ManagedResultPosition" />
              <xsd:enumeration value="PromotionSpec" />
              <xsd:enumeration value="SynonymTerm" />
          </xsd:restriction>
      </xsd:simpleType>
```

The following table specifies the valid values for **SearchSettingSortField**.

Value	Meaning
Name	Sort the result by name.
LastChanged	Sort the result by the time at which the result element was last changed.
StartDate	Sort the result by the start date.
EndDate	Sort the result by the end date.
ManagedResultUri	Sort the result by the URI of the managed results. This value MUST be used only if the search setting is a best bet or featured content.
ManagedResultPosition	Sort the result by the position of the managed results. This value MUST be used only if the search setting is a best bet or featured content.
PromotionSpec	Sort the result by the URI of the managed results. This value MUST be used only if the search setting is a promotion.
SynonymTerm	Sort the result by the synonym term. This value MUST be used only if the search setting is a synonym.

3.8.4.44.5 Attributes

None.

3.8.4.44.6 Groups

None.

3.8.4.44.7 Attribute Groups

None.

3.8.4.45 CountSearchSettingsForGroupByCriteria

The **CountSearchSettingsForGroupByCriteria** operation counts the number of search settings for a given search setting group on the protocol server.

```
  <wsdl:operation name="CountSearchSettingsForGroupByCriteria">
    <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForGroupByCriteria"
message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage" />
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
```

```
earchSettingsForGroupByCriteriaResponse"
message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForGroupByCriteriaAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_Faul
tMessage" />
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_**CountSearchSettingsForGroupByCriteria**_InputMessage request message. On
successful completion, the protocol server MUST respond with a
KeywordService_CountSearchSettingsForGroupByCriteria_OutputMessage response
message.

3.8.4.45.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.45.1.1 KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage

The **KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage** request
message initiates the counting of the search settings.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForGroupByCriteria
```

The SOAP body MUST contain a **CountSearchSettingsForGroupByCriteria** element.

3.8.4.45.1.2 KeywordService_CountSearchSettingsForGroupByCriteria_OuputMessage

The **KeywordService_CountSearchSettingsForGroupByCriteria_OuputMessage** response
message is sent in reply to the request that is initiated by the
CountSearchSettingsForGroupByCriteria_InputMessage message.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForGroupByCriteriaResponse
```

The SOAP body MUST contain a **CountSearchSettingsForGroupByCriteriaResponse** element.

3.8.4.45.1.3 KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_FaultMessage

The
**KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_Faul
tMessage** response message is sent in reply to the request that is initiated by the
KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage message. The
protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSearchSettings
ForGroupByCriteriaAdminExceptionWCFFault
```

3.8.4.45.2 Elements

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

3.8.4.45.2.1 CountSearchSettingsForGroupByCriteria

The **CountSearchSettingsForGroupByCriteria** request message initiates the counting of search settings of the specified criteria for a given group.

```
<xsd:element name="CountSearchSettingsForGroupByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="global" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

groupId: The identifier of the group from which to count search settings.

type: The type of the search settings to count.

filter: If not **null**, only the search settings whose term contains this substring are counted. If **null**, no filtering is performed.

global: If **true**, search settings that are not associated with a keyword MUST also be counted.

3.8.4.45.2.2 CountSearchSettingsForGroupResponse

The **CountSearchSettingsForGroupResponse** response message is sent in reply to the request that is initiated by the **CountSearchSettingsForGroupByCriteria** message.

```
<xsd:element name="CountSearchSettingsForGroupResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountSearchSettingsForGroupResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CountSearchSettingsForGroupResult: The number of search settings that satisfy the criteria.

3.8.4.45.3 Complex Types

None.

3.8.4.45.4 Simple Types

None.

3.8.4.45.5 Attributes

None.

3.8.4.45.6 Groups

None.

3.8.4.45.7 Attribute Groups

None.

3.8.4.46 UpdatePromotedItem

The **UpdatePromotedItem** operation updates a promoted item on the protocol server.

```
<wsdl:operation name="UpdatePromotedItem">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItem" message="tns:KeywordService_UpdatePromotedItem_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItemResponse" message="tns:KeywordService_UpdatePromotedItem_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItemAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_UpdatePromotedItem_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_UpdatePromotedItem_OutputMessage response message.

3.8.4.46.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.46.1.1 KeywordService_UpdatePromotedItem_InputMessage

The **KeywordService_UpdatePromotedItem_InputMessage** request message initiates the
updating of the promoted item.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdatePromotedItem
```

The SOAP body MUST contain an **UpdatePromotedItem** element.

3.8.4.46.1.2 KeywordService_UpdatePromotedItem_OutputMessage

The **KeywordService_UpdatePromotedItem_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdatePromotedItem_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdatePromotedItemR
esponse
```

The SOAP body MUST contain an **UpdatePromotedItemResponse** element.

3.8.4.46.1.3 KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage

The **KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_UpdatePromotedItem_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdatePromotedItemA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.46.2 Elements

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

3.8.4.46.2.1 UpdatePromotedItem

The **UpdatePromotedItem** element contains input data for an **UpdatePromotedItem** operation.

```
<xsd:element name="UpdatePromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotedItem" nillable="true"
type="tns:PromotedItemDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotedItem: The elements of the promoted item to update. This element MUST be present, it MUST NOT be **null** and it MUST contain the elements **Id**, **PromotedItemSpec**, **PromotedItemType**, and **PromotionId**.

3.8.4.46.2.2 UpdatePromotedItemResponse

The **UpdatePromotedItemResponse** element contains result data for an **UpdatePromotedItem** operation.

```
<xsd:element name="UpdatePromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdatePromotedItemResult" nillable="true"
type="tns:PromotedItemDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

UpdatePromotedItemResult: The elements of the updated promoted item. Except from the **LastChanged** element, the returned elements MUST contain the same elements as the promoted item element of the request message. The **LastChanged** element MUST contain the date and time, in UTC, at which the promoted item was updated.

3.8.4.46.3 Complex Types

None.

3.8.4.46.4 Simple Types

None.

3.8.4.46.5 Attributes

None.

3.8.4.46.6 Groups

None.

3.8.4.46.7 Attribute Groups

None.

3.8.4.47 CountPromotedItems

This **CountPromotedItems** operation counts the number of promoted items for a given promotion on the protocol server.

```
<wsdl:operation name="CountPromotedItems">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItems" message="tns:KeywordService_CountPromotedItems_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsResponse" message="tns:KeywordService_CountPromotedItems_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_CountPromotedItems_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_CountPromotedItems_OutputMessage** response message.

3.8.4.47.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.47.1.1 KeywordService_CountPromotedItems_InputMessage

The **KeywordService_CountPromotedItems_InputMessage** request message initiates the counting of the promoted items.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountPromotedItems
```

The SOAP body MUST contain a **CountPromotedItems** element.

3.8.4.47.1.2 KeywordService_CountPromotedItems_OutputMessage

The **KeywordService_CountPromotedItems_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountPromotedItems_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountPromotedItemsR
esponse
```

The SOAP body MUST contain a **CountPromotedItemsResponse** element.

3.8.4.47.1.3 KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CountpromotedItems_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountpromotedItemsA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.47.2 Elements

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

3.8.4.47.2.1 CountPromotedItems

The **CountPromotedItems** element contains input data for a **CountPromotedItems** operation.

```
<xsd:element name="CountPromotedItems">
  <xsd:complexType>
```

```
        <xsd:sequence>
          <xsd:element minOccurs="0" name="promotionid" type="xsd:long"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

promotionid: The identifier of the promotion for which to count promoted items.

3.8.4.47.2.2 CountPromotedItemsResponse

The **CountPromotedItemsResponse** element contains result data for a **CountPromotedItems** operation.

```
    <xsd:element name="CountPromotedItemsResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="CountPromotedItemsResult" type="xsd:int"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

CountPromotedItemsResult: The number of promoted items for the promotion.

3.8.4.47.3 Complex Types

None.

3.8.4.47.4 Simple Types

None.

3.8.4.47.5 Attributes

None.

3.8.4.47.6 Groups

None.

3.8.4.47.7 Attribute Groups

None.

3.8.4.48 RemovePromotedItems

The **RemovePromotedItems** operation deletes promoted items from the protocol server.

```
    <wsdl:operation name="RemovePromotedItems">
      <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItems" message="tns:KeywordService_RemovePromotedItems_InputMessage"/>
      <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsResponse" message="tns:KeywordService_RemovePromotedItems_OutputMessage"/>
```

```
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessage"/>
  </wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemovePromotedItems_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **KeywordService_RemovePromotedItems_OutputMessage** response message.

3.8.4.48.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.48.1.1   KeywordService_RemovePromotedItems_InputMessage

The **KeywordService_RemovePromotedItems_InputMessage** request message initiates the
removal of the promoted items.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItems
```

The SOAP body MUST contain a **RemovePromotedItems** element.

3.8.4.48.1.2   KeywordService_RemovePromotedItems_OutputMessage

The **KeywordService_RemovePromotedItems_OutputMessage** response message is sent in
reply to the request that is initiated by the
KeywordService_RemovePromotedItems_InputMessage message.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItems
Response
```

The SOAP body MUST contain a **RemovePromotedItemsResponse** element.

3.8.4.48.1.3
KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessag
e

The **KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_RemovePromotedItems_InputMessage message. The protocol server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItems
AdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.48.2 Elements

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

3.8.4.48.2.1 RemovePromotedItems

The **RemovePromotedItems** element contains input data for a **RemovePromotedItems** operation.

```
<xsd:element name="RemovePromotedItems">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionid" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotionid: The identifier of the promotion for which to delete promoted items.

3.8.4.48.2.2 RemovePromotedItemsResponse

The **RemovePromotedItemsResponse** element contains result data for a **RemovePromotedItems** operation.

```
<xsd:element name="RemovePromotedItemsResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.8.4.48.3 Complex Types

None.

3.8.4.48.4 Simple Types

None.

3.8.4.48.5 Attributes

None.

3.8.4.48.6 Groups

None.

3.8.4.48.7 Attribute Groups

None.

3.8.4.49 RemovePromotedItem

The **RemovePromotedItem** operation deletes a promoted item from the protocol server.

```
<wsdl:operation name="RemovePromotedItem">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItem" message="tns:KeywordService_RemovePromotedItem_InputMessage" />
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemResponse" message="tns:KeywordService_RemovePromotedItem_OutputMessage" />
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage" />
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_RemovePromotedItem_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_RemovePromotedItem_OutputMessage** response message.

3.8.4.49.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.49.1.1 KeywordService_RemovePromotedItem_InputMessage

The **KeywordService_RemovePromotedItem_InputMessage** request message initiates the removal of the promoted item.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItem
```

The SOAP body MUST contain a **RemovePromotedItem** element.

3.8.4.49.1.2 KeywordService_RemovePromotedItem_OutputMessage

The **KeywordService_RemovePromotedItem_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemovePromotedItem_InputMessage** message.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItemR
esponse
```

The SOAP body MUST contain a **RemovePromotedItemResponse** element.

3.8.4.49.1.3 KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemovePromotedItem_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemovePromotedItemA
dminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.49.2 Elements

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

3.8.4.49.2.1 RemovePromotedItem

The **RemovePromotedItem** element contains input data for a **RemovePromotedItem** operation.

```
<xsd:element name="RemovePromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="itemId" type="xsd:long" />
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

itemId: The identifier of the promoted item to remove. This element MUST be present.

promotionId: The identifier of the promotion from which to delete the promoted item. This element MUST be present.

3.8.4.49.2.2 RemovePromotedItemResponse

The **RemovePromotedItemResponse** element contains result data for a **RemovePromotedItem** operation.

```
<xsd:element name="RemovePromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemovePromotedItemResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemovePromotedItemResult: The value is **true** if the promoted item was successfully removed; otherwise, the value is **false**.

3.8.4.49.3 Complex Types

None.

3.8.4.49.4 Simple Types

None.

3.8.4.49.5 Attributes

None.

3.8.4.49.6 Groups

None.

3.8.4.49.7 Attribute Groups

None.

3.8.4.50 ContainsPromotedItem

The **ContainsPromotedItem** operation checks whether a promotion contains a promoted item that is associated with a given identifier on the protocol server.

```
<wsdl:operation name="ContainsPromotedItem">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItem" message="tns:KeywordService_ContainsPromotedItem_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItemResponse" message="tns:KeywordService_ContainsPromotedItem_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItemAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_ContainsPromotedItem_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_ContainsPromotedItem_OutputMessage** response message.

3.8.4.50.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.50.1.1 MessagesKeywordService_ContainsPromotedItem_InputMessage

The **KeywordService_ContainsPromotedItem_InputMessage** request message initiates the check for containment.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainspromotedIte
m
```

The SOAP body MUST contain a **ContainsPromotedItem** element.

3.8.4.50.1.2 KeywordService_ContainsPromotedItem_OutputMessage

The **KeywordService_ContainsPromotedItem_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_ContainsPromotedItem_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsPromotedIte
mResponse
```

The SOAP body MUST contain a **ContainsPromotedItemResponse** element.

3.8.4.50.1.3 KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage

The **KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_ContainsPromotedItem_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsPromotedIte
mAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.50.2 Elements

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

3.8.4.50.2.1 ContainsPromotedItem

The **ContainsPromotedItem** element contains input data for a **ContainsPromotedItem** operation.

```
<xsd:element name="ContainsPromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="itemId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

itemId: The identifier of the promoted item for which to check for containment.

promotionId: The identifier of the promotion for which to check for containment.

3.8.4.50.2.2 ContainsPromotedItemResponse

The result data for a **ContainsPromotedItem** operation.

```xsd
<xsd:element name="ContainsPromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsPromotedItemResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsPromotedItemResult: The value MUST be **true** if the promotion contains the promoted item; otherwise, the value is **false**.

3.8.4.50.3 Complex Types

None.

3.8.4.50.4 Simple Types

None.

3.8.4.50.5 Attributes

None.

3.8.4.50.6 Groups

None.

3.8.4.50.7 Attribute Groups

None.

3.8.4.51 AddPromotedItem

The **AddPromotedItem** operation adds a promoted item to a promotion.

```wsdl
<wsdl:operation name="AddPromotedItem">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItem" message="tns:KeywordService_AddPromotedItem_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItemResponse" message="tns:KeywordService_AddPromotedItem_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItemAdminExceptionWCFFault" name="AdminExceptionWCFFault"
  message="tns:KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_AddPromotedItem_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_AddPromotedItem_OutputMessage** response message.

3.8.4.51.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.51.1.1 KeywordService_AddPromotedItem_InputMessage

The **KeywordService_AddPromotedItem_InputMessage** request message initiates the addition of the promoted item.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPromotedItem
```

The SOAP body MUST contain an **AddPromotedItem** element.

3.8.4.51.1.2 KeywordService_AddPromotedItem_OutputMessage

The **KeywordService_AddPromotedItem_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddpromotedItem_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPromotedItemResp
onse
```

The SOAP body MUST contain a **AddPromotedItemResponse** element.

3.8.4.51.1.3 KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddPromotedItem_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPromotedItemAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.51.2 Elements

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

3.8.4.51.2.1 AddPromotedItem

The **AddPromotedItem** element contains input data for an **AddPromotedItem** operation.

```
<xsd:element name="AddPromotedItem">
  <xsd:complexType>
```

```
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotedItem" nillable="true"
  type="tns:PromotedItemDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotedItem: The values of the promoted item to add. This element MUST be present and it MUST NOT be **null**. The **Name**, **PromotedItemSpec**, and **PromotionId** values of the promoted item MUST be present and the **Name** and **PromotedItemSpec** MUST be unique for the promotion. The type of the element MUST be one of the following extensions of **PromotedItemDTO**:

- **PromotedDocumentDTO** if a promoted document is being added.

- **PromotedExpressionDTO** if a promoted expression is being added.

- **PromotedLocationDTO** if a promoted location is being added.

3.8.4.51.2.2   AddPromotedItemResponse

The **AddPromotedItemResponse** element contains result data for an **AddPromotedItem** operation.

```
<xsd:element name="AddPromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddPromotedItemResult" nillable="true"
  type="tns:PromotedItemDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddPromotedItemResult: The values of the added promoted item. This element MUST have the same values and type as those of the **AddPromotedItem** element that initiated this operation. In addition, the following properties MUST be set by the protocol server:

LastChanged: The date and time of creation of the promoted item on the protocol server, in UTC.

Id: A unique identifier for the promoted item. This identifier MUST be unique across search setting groups.

3.8.4.51.3   Complex Types

None.

3.8.4.51.4   Simple Types

None.

3.8.4.51.5   Attributes

None.

3.8.4.51.6 Groups

None.

3.8.4.51.7 Attribute Groups

None.

3.8.4.52 GetBestBetPagedResult

The **GetBestBetPagedResult** operation retrieves a list of best bets from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of best bets from a potentially large result set.

```
<wsdl:operation name="GetBestBetPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResult" message="tns:KeywordService_GetBestBetPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultResponse" message="tns:KeywordService_GetBestBetPagedResult_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send **a KeywordService_GetBestBetPagedResult_Message** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_GetBestBetPagedResult_OutputMessage** response message.

3.8.4.52.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.52.1.1 KeywordService_GetBestBetPagedResult_InputMessage

The **KeywordService_GetBestBetPagedResult_InputMessage** request message initiates the retrieval of the best bets.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBestBetPagedResu
lt
```

The SOAP body MUST contain a **GetBestBetPagedResult** element.

3.8.4.52.1.2 KeywordService_GetBestBetPagedResult_OutputMessage

The **KeywordService_GetBestBetPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetBestBetPagedResult_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBestBetPagedResu
ltResponse
```

The SOAP body MUST contain a **GetBestBetPagedResultResponse** element.

3.8.4.52.1.3 KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetBestBetPagedResult_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBestBetPagedResu
ltAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.52.2 Elements

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

3.8.4.52.2.1 GetBestBetPagedResult

The **GetBestBetPagedResult** element contains input data for a **GetBestBetPagedResult** operation.

```
<xsd:element name="GetBestBetPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="field" type="tns:BestBetSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

keywordId: The identifier of the keyword from which to retrieve best bets.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number of best bets to skip after sorting the result.

count: The number of best bets to retrieve.

filter: If not **null**, only the best bets for the **keyword** whose term contains this substring MUST be included. If **null**, no filtering is performed.

3.8.4.52.2.2 GetBestBetPagedResultResponse

The **GetBestBetPagedResultResponse** element contains output data for a **GetBestBetPagedResult** operation.

```
<xsd:element name="GetBestBetPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetBestBetPagedResultResult" nillable="true"
type="tns:ArrayOfBestBetDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetBestBetPagedResultResult: An array of best bets satisfying the query.

3.8.4.52.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.52.3.1 ArrayOfBestBetDTO

The **ArrayOfBestBetDTO** complex type contains an array of **BestBetDTO**. This array contains zero, one, or more best bet elements.

```
<xsd:complexType name="ArrayOfBestBetDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="BestBetDTO" nillable="true"
type="tns:BestBetDTO" />
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.52.4 Simple Types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.52.4.1 BestBetSortField

The **BestBetSortField** simple type is shown in the following example.

```
<xsd:simpleType name="BestBetSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDate" />
    <xsd:enumeration value="Uri" />
    <xsd:enumeration value="Position" />
  </xsd:restriction>
</xsd:simpleType>
```

Release: July 16, 2012

The following table specifies the valid values for **BestBetSortField.**

Value	Meaning
Name	Sort the result according to name.
LastChanged	Sort the result according to when the result element was last changed.
StartDate	Sort the result according to start date.
EndDate	Sort the result according to end date.
Uri	Sort the result according to URI.
Position	Sort the result according to position.

3.8.4.52.5 Attributes

None.

3.8.4.52.6 Groups

None.

3.8.4.52.7 Attribute Groups

None.

3.8.4.53 GetFeaturedContentPagedResult

The **GetFeaturedContentPagedResult** operation retrieves a list of featured content from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of featured content from a potentially large result set.

```
<wsdl:operation name="GetFeaturedContentPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResult"
message="tns:KeywordService_GetFeaturedContentPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultResponse"
message="tns:KeywordService_GetFeaturedContentPagedResult_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage
"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_GetFeaturedContentPagedResult_InputMessage request message. When the operation finishes successfully, the protocol server MUST respond with a
KeywordService_GetFeaturedContentPagedResult_OutputMessage response message.

3.8.4.53.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.53.1.1 KeywordService_GetFeaturedContentPagedResult_InputMessage

The **KeywordService_GetFeaturedContentPagedResult_InputMessage** request message initiates the retrieval of a list of featured content.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFeaturedContentP
agedResult
```

The SOAP body MUST contain a **GetFeaturedContentPagedResult** element.

3.8.4.53.1.2 KeywordService_GetFeaturedContentPagedResult_OutputMessage

The **KeywordService_GetFeaturedContentPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetFeaturedContentPagedResult_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFeaturedContentP
agedResultResponse
```

The SOAP body MUST contain a **GetFeaturedContentPagedResultResponse** element.

3.8.4.53.1.3 KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetFeaturedContentPagedResult_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFeaturedContentP
agedResultAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.53.2 Elements

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

3.8.4.53.2.1 GetFeaturedContentPagedResult

The **GetFeaturedContentPagedResult** element contains input data for an **GetFeaturedContentPagedResult** operation.

```
<xsd:element name="GetFeaturedContentPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="field" type="tns:FeaturedContentSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

keywordId: The identifier of the group from which to retrieve featured content.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number of featured content to skip after sorting the result.

count: The number of featured content to retrieve.

filter: If not **null**, only the featured content for the keyword whose term contains this substring MUST be included. If **null**, no filtering is performed.

3.8.4.53.2.2 GetFeaturedContentPagedResultResponse

The **GetFeaturedContentPagedResultResponse** element contains output data for a **GetFeaturedContentPagedResult** operation.

```
<xsd:element name="GetFeaturedContentPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFeaturedContentPagedResultResult" nillable="true"
type="tns:ArrayOfFeaturedContentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetFeaturedContentPagedResultResult: An array of featured content that satisfies the given criteria.

3.8.4.53.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.53.3.1 ArrayOfFeaturedContentDTO

The **ArrayOfFeaturedContentDTO** complex type contains an array of **FeaturedContentDTO**. This array contains zero, one, or more featured content elements.

```
<xsd:complexType name="ArrayOfFeaturedContentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="FeaturedContentDTO"
nillable="true" type="tns:FeaturedContentDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.53.4 Simple Types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.53.4.1 FeaturedContentSortField

The **FeaturedContentSortField** simple type is shown in the following example.

```
<xsd:simpleType name="FeaturedContentSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDate" />
    <xsd:enumeration value="Uri" />
    <xsd:enumeration value="Position" />
  </xsd:restriction>
</xsd:simpleType>
```

The following table specifies the valid values for **FeaturedContentSortField.**

Value	Meaning
Name	Sort the result according to name.
LastChanged	Sort the result according to when the result element was last changed.
StartDate	Sort the result according to start date.
EndDate	Sort the result according to end date.
Uri	Sort the result according to URI.
Position	Sort the result according to position.

3.8.4.53.5 Attributes

None.

3.8.4.53.6 Groups

None.

3.8.4.53.7 Attribute Groups

None.

3.8.4.54 GetPromotionPagedResult

The **GetPromotionPagedResult** operation retrieves a list of promotions from the protocol server. The offset and count parameters enable protocol clients to retrieve batches of promotions from a potentially large result set.

```
<wsdl:operation name="GetPromotionPagedResult">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResult" message="tns:KeywordService_GetPromotionPagedResult_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResultResponse"
message="tns:KeywordService_GetPromotionPagedResult_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResultAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage"/>
  </wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetPromotionPagedResult_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_GetPromotionPagedResult_OutputMessage** response message.

3.8.4.54.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.54.1.1 KeywordService_GetPromotionPagedResult_InputMessage

The **KeywordService_GetPromotionPagedResult_InputMessage** request message initiates the retrieval of promotions.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotionPagedRe
sult
```

The SOAP body MUST contain a **GetPromotionPagedResult** element.

3.8.4.54.1.2 KeywordService_GetPromotionPagedResult_OutputMessage

The **KeywordService_GetPromotionPagedResult_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotionPagedResult_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotionPagedRe
sultResponse
```

The SOAP body MUST contain a **GetPromotionPagedResultResponse** element.

3.8.4.54.1.3 KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotionPagedResult_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotionPagedRe
sultAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.54.2 Elements

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

3.8.4.54.2.1 GetPromotionPagedResult

The **GetPromotionPagedResult** element contains input data for a **GetPromotionPagedResult** operation.

```
<xsd:element name="GetPromotionPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="field" type="tns:PromotionSortField"/>
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

keywordId: The identifier of the keyword from which to retrieve promotions.

field: The sort field in the result set.

direction: The sort direction of the sort field.

offset: The number promotions to skip after sorting the result.

count: The number of promotions to retrieve.

filter: If not **null**, only the promotions for the **keyword** whose term contains this substring MUST be included. If **null**, no filtering is performed.

3.8.4.54.2.2 GetPromotionPagedResultResponse

The **GetPromotionPagedResultResponse** element contains output data for a
GetPromotionPagedResult operation.

```
<xsd:element name="GetPromotionPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotionPagedResultResult" nillable="true"
type="tns:ArrayOfPromotionDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPromotionPagedResultResult: An array of the promotions that satisfy the criteria.

3.8.4.54.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.54.3.1 ArrayOfPromotionDTO

The **ArrayOfPromotionDTO** complex type contains an array of **PromotionDTO**. This array
contains zero, one, or more promotion elements.

```
<xsd:complexType name="ArrayOfPromotionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotionDTO" nillable="true"
type="tns:PromotionDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.54.4 Simple Types

The XML Schema simple type definitions in the following sections are specific to this operation.

3.8.4.54.4.1 PromotionSortField

The **PromotionSortField** simple type is shown following.

```
<xsd:simpleType name="PromotionSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDdate" />
    <xsd:enumeration value="PromotionSpec">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
```

```
    </xsd:simpleType>
```

The following table specifies the valid values for **PromotionSortField.**

Value	Meaning
Name	Sort the result according to name.
LastChanged	Sort the result according to when the result element was last changed.
StartDate	Sort the result according to start date.
EndDate	Sort the result according to end date.
PromotionSpec	Sort the result according to promotion specification.

3.8.4.54.5 Attributes

None.

3.8.4.54.6 Groups

None.

3.8.4.54.7 Attribute Groups

None.

3.8.4.55 GetPromotedItems

The **GetPromotedItems** operation retrieves a list of promoted items from the protocol server.

```
<wsdl:operation name="GetPromotedItems">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItems" message="tns:KeywordService_GetPromotedItems_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsResponse" message="tns:KeywordService_GetPromotedItems_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetPromotedItems_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetPromotedItems_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_GetPromotedItemResult_OutputMessage** response message.

3.8.4.55.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.55.1.1 KeywordService_GetPromotedItems_InputMessage

The **KeywordService_GetPromotedItems_InputMessage** request message initiates the retrieval of the promoted items.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedItems
```

The SOAP body MUST contain a **GetPromotedItem** element.

3.8.4.55.1.2 KeywordService_GetPromotedItems_OutputMessage

The **KeywordService_GetPromotedItems_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotedItem_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedItemsRes
ponse
```

The SOAP body MUST contain a **GetPromotedItemsResponse** element.

3.8.4.55.1.3 KeywordService_GetPromotedItem_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetPromotedItem_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotedItems_InputMessage message**. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedItemsAdm
inExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.55.2 Elements

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

3.8.4.55.2.1 GetPromotedItems

The **GetPromotedItems** element contains input data for a **GetPromotedItems** operation.

```
<xsd:element name="GetPromotedItems">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

promotionId: The identifier of the promotion from which to retrieve promoted items.

3.8.4.55.2.2   GetPromotedItemsResponse

The **GetPromotedItemsResponse** element contains result data for a **GetPromotedItems** operation.

```
<xsd:element name="GetPromotedItemsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedItemsResult" nillable="true"
type="tns:ArrayOfPromotedItemDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPromotedItemsResult: An array of promoted items for the promotion.

3.8.4.55.3   Complex Types

None.

3.8.4.55.4   Simple Types

None.

3.8.4.55.5   Attributes

None.

3.8.4.55.6   Groups

None.

3.8.4.55.7   Attribute Groups

None.

3.8.4.56   GetPromotedDocuments

The **GetPromotedDocuments** operation retrieves a list of promoted documents for a promotion from the protocol server.

```
<wsdl:operation name="GetPromotedDocuments">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocuments" message="tns:KeywordService_GetPromotedDocuments_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocumentsResponse" message="tns:KeywordService_GetPromotedDocuments_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
```

```
motedDocumentsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetPromotedDocuments_InputMessage**
request message. On successful completion, the protocol server MUST respond with a
KeywordService_GetPromotedDocuments_OutputMessage response message.

3.8.4.56.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.56.1.1   KeywordService_GetPromotedDocuments_InputMessage

The **KeywordService_GetPromotedDocuments_InputMessage** request message initiates the
retrieval of promoted documents.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedDocument
s
```

The SOAP body MUST contain a **GetPromotedDocuments** element.

3.8.4.56.1.2   KeywordService_GetPromotedDocuments_OutputMessage

The **KeywordService_GetPromotedDocuments_OutputMessage** response message is sent in
reply to the request that is initiated by the
KeywordService_GetPromotedDocuments_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedDocument
sResponse
```

The SOAP body MUST contain a **GetPromotedDocumentsResponse** element.

3.8.4.56.1.3
KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessa
ge

The **KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_GetPromotedDocuments_InputMessage message. The protocol server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedDocument
sAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.56.2   Elements

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

3.8.4.56.2.1   GetPromotedDocuments

The **GetPromotedDocuments** element contains input data for a **GetPromotedDocuments** operation.

```
<xsd:element name="GetPromotedDocuments">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotionId: The identifier of the promotion from which to retrieve promoted documents.

3.8.4.56.2.2   GetPromotedDocumentsResponse

The **GetPromotedDocumentsResponse** element contains result data for a **GetPromotedDocuments** operation.

```
<xsd:element name="GetPromotedDocumentsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedDocumentsResult" nillable="true"
type="tns:ArrayOfPromotedDocumentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPromotedDocumentsResult: An array of promoted documents.

3.8.4.56.3   Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.56.3.1   ArrayOfPromotedDocumentDTO

The **ArrayOfPromotedDocumentDTO** complex type contains an array of **PromotedDocumentDTO**. This array contains zero, one, or more promoted document elements.

```
<xsd:complexType name="ArrayOfPromotedDocumentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedDocumentDTO"
nillable="true" type="tns:PromotedDocumentDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.56.4 Simple Types

None.

3.8.4.56.5 Attributes

None.

3.8.4.56.6 Groups

None.

3.8.4.56.7 Attribute Groups

None.

3.8.4.57 GetPromotedExpressions

The **GetPromotedExpressions** operation retrieves a list of promoted expressions for a promotion from the protocol server.

```
<wsdl:operation name="GetPromotedExpressions">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressions" message="tns:KeywordService_GetPromotedExpressions_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsResponse" message="tns:KeywordService_GetPromotedExpressions_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetPromotedExpressions_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_GetPromotedExpressions_OutputMessage** response message.

3.8.4.57.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.57.1.1 KeywordService_GetPromotedExpressions_InputMessage

The **KeywordService_GetPromotedExpressions_InputMessage** request message initiates the retrieval of the promoted expressions.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedExpressi
ons
```

The SOAP body MUST contain a **GetPromotedExpressions** element.

3.8.4.57.1.2 KeywordService_GetPromotedExpressions_OutputMessage

The **KeywordService_GetPromotedExpressions_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotedExpressions_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedExpressi
onsResponse
```

The SOAP body MUST contain a **GetPromotedExpressionsResponse** element.

3.8.4.57.1.3
KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetPromotedExpressions_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedExpressi
onsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.57.2 Elements

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

3.8.4.57.2.1 GetPromotedExpressions

The **GetPromotedExpressions** element contains input data for a **GetPromotedExpressions** operation.

```
<xsd:element name="GetPromotedExpressions">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotionId: The identifier of the promotion from which to retrieve promoted expressions.

3.8.4.57.2.2 GetPromotedExpressionsResponse

The **GetPromotedExpressionsResponse** element contains result data for a **GetPromotedExpressions** operation.

```
<xsd:element name="GetPromotedExpressionsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedExpressionsResult" nillable="true"
type="tns:ArrayOfPromotedExpressionDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPromotedExpressionsResult: An array of promoted expressions.

3.8.4.57.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.57.3.1 ArrayOfPromotedExpressionDTO

The **ArrayOfPromotedExpressionDTO** complex type contains an array of
PromotedExpressionDTO. This array contains zero, one, or more **promoted expression**
elements.

```
<xsd:complexType name="ArrayOfPromotedExpressionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedExpressionDTO"
nillable="true" type="tns:PromotedExpressionDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.57.4 Simple Types

None.

3.8.4.57.5 Attributes

None.

3.8.4.57.6 Groups

None.

3.8.4.57.7 Attribute Groups

None.

3.8.4.58 GetPromotedLocations

The **GetPromotedLocations** operation retrieves a list of promoted locations for a promotion from
the protocol server.

```
<wsdl:operation name="GetPromotedLocations">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocations" message="tns:KeywordService_GetPromotedLocations_InputMessage"/>
```

```
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsResponse" message="tns:KeywordService_GetPromotedLocations_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
  message="tns:KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetPromotedLocations_InputMessage**
request message. When the operation finishes successfully, the protocol server MUST respond with
a **KeywordService_GetPromotedLocations_OutputMessage** response message.

3.8.4.58.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.58.1.1 KeywordService_GetPromotedLocations_InputMessage

The **KeywordService_GetPromotedLocations_InputMessage** request message initiates the
retrieval of the promoted locations.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedLocation
s
```

The SOAP body MUST contain a **GetPromotedLocations** element.

3.8.4.58.1.2 KeywordService_GetPromotedLocations_OutputMessage

The **KeywordService_GetPromotedLocations_OutputMessage** response message is sent in
reply to the request that is initiated by the
KeywordService_GetPromotedLocations_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedLocation
sResponse
```

The SOAP body MUST contain a **GetPromotedLocationsResponse** element.

3.8.4.58.1.3
KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessag
e

The **KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_GetPromotedLocations_InputMessage message. The protocol service MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPromotedLocation
sAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.58.2   Elements

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

3.8.4.58.2.1   GetPromotedLocations

The **GetPromotedLocations** element contains input data for a **GetPromotedLocations** operation.

```
<xsd:element name="GetPromotedLocations">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

promotionId: The identifier of the promotion from which to retrieve promoted locations.

3.8.4.58.2.2   GetPromotedLocationsResponse

The **GetPromotedLocationsResponse** element contains result data for a **GetPromotedLocations** operation.

```
<xsd:element name="GetPromotedLocationsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedLocationsResult" nillable="true"
type="tns:ArrayOfPromotedLocationDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPromotedLocationsResult: An array of promoted locations.

3.8.4.58.3   Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.58.3.1   ArrayOfPromotedLocationDTO

The **ArrayOfPromotedLocationDTO** complex type contains an array of **PromotedLocationDTO**. This array contains zero, one or more promoted location elements.

```
<xsd:complexType name="ArrayOfPromotedLocationDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedLocationDTO"
nillable="true" type="tns:PromotedLocationDTO"/>
  </xsd:sequence>
```

```
</xsd:complexType>
```

3.8.4.58.4   Simple Types

None.

3.8.4.58.5   Attributes

None.

3.8.4.58.6   Groups

None.

3.8.4.58.7   Attribute Groups

None.

3.8.4.59   CreateAggregateContextExpressionRoot

The **CreateAggregateContextExpressionRoot** operation adds a context expression root node to a search setting context on the protocol server.

```
<wsdl:operation name="CreateAggregateContextExpressionRoot">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRoot"
message="tns:KeywordService_CreateAggregateContextExpressionRoot_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootResponse"
message="tns:KeywordService_CreateAggregateContextExpressionRoot_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_Fault
Message"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_CreateAggregateContextExpressionRoot_InputMessage request message.
When the operation finishes successfully, the protocol server MUST respond with a
KeywordService_CreateAggregateContextExpressionRoot_OutputMessage response
message.

3.8.4.59.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.59.1.1
KeywordService_CreateAggregateContextExpressionRoot_InputMessage

The **KeywordService_CreateAggregateContextExpressionRoot_InputMessage** request
message initiates the creation of the context expression root node.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CreateAggregateCont
extExpressionRoot
```

The SOAP body MUST contain a **CreateAggregateContextExpressionRoot** element.

3.8.4.59.1.2 KeywordService_CreateAggregateContextExpressionRoot_OutputMessage

The **KeywordService_CreateAggregateContextExpressionRoot_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CreateAggregateContextExpressionRoot_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CreateAggregateCont
extExpressionRootResponse
```

The SOAP body MUST contain a **CreateAggregateContextExpressionRootResponse** element.

3.8.4.59.1.3 KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_FaultMessage

The **KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_CreateAggregateContextExpressionRoot_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CreateAggregateCont
extExpressionRootAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.59.2 Elements

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

3.8.4.59.2.1 CreateAggregateContextExpressionRoot

The **CreateAggregateContextExpressionRoot** element contains input data for a **CreateAggregateContextExpressionRoot** operation.

```
<xsd:element name="CreateAggregateContextExpressionRoot">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="context" nillable="true" type="tns:ContextDTO"/>
      <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes"/>
    </xsd:sequence>
```

```
        </xsd:complexType>
      </xsd:element>
```

context: The elements of the search setting context for which to create the context expression root node. This element MUST be present, it MUST NOT be **null** and the **Id** element of the context MUST be the identifier of an existing search setting context.

type: The type of the context expression root node.

The protocol server MUST delete all the context expression nodes that are already associated with the search setting context.

3.8.4.59.2.2   CreateAggregateContextExpressionRootResponse

The **CreateAggregateContextExpressionRootResponse** element contains result data for a **CreateAggregateContextExpressionRoot** operation.

```
  <xsd:element name="CreateAggregateContextExpressionRootResponse">
    <xsd:complexType>
      <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateAggregateContextExpressionRootResult"
nillable="true" type="tns:ContextExpressionDTO"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

CreateAggregateContextExpressionRootResult: The aggregate context expression root node.

3.8.4.59.3   Complex Types

None.

3.8.4.59.4   Simple Types

None.

3.8.4.59.5   Attributes

None.

3.8.4.59.6   Groups

None.

3.8.4.59.7   Attribute Groups

None.

3.8.4.60   RemoveContextExpressionSubtree

The **RemoveContextExpressionSubtree** operation deletes all context expression nodes that descend from a given context expression node from the protocol server.

```
<wsdl:operation name="RemoveContextExpressionSubtree">
<wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtree"
message="tns:KeywordService_RemoveContextExpressionSubtree_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeResponse"
message="tns:KeywordService_RemoveContextExpressionSubtree_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessag
e"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveContextExpressionSubtree_InputMessage request message. On
successful completion, the protocol server MUST respond with a
KeywordService_RemoveContextExpressionSubtree_OutputMessage response message.

3.8.4.60.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.60.1.1 KeywordService_RemoveContextExpressionSubtree_InputMessage

The **KeywordService_RemoveContextExpressionSubtree_InputMessage** request message
initiates the removal of the context expression nodes.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtree
```

The SOAP body MUST contain a **RemoveContextExpressionSubtree** element.

3.8.4.60.1.2 KeywordService_RemoveContextExpressionSubtree_OutputMessage

The **KeywordService_RemoveContextExpressionSubtree_OutputMessage** response message
is sent in reply to the request that is initiated by the
KeywordService_RemoveContextExpressionSubtree_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtreeResponse
```

The SOAP body MUST contain a **RemoveContextExpressionSubtreeResponse** element.

3.8.4.60.1.3 KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveContextExpressionSubtree_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtreeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.60.2 Elements

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

3.8.4.60.2.1 RemoveContextExpressionSubtree

The **RemoveContextExpressionSubtree** element contains input data for a **RemoveContextExpressionSubtree** operation.

```
<xsd:element name="RemoveContextExpressionSubtree">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
 </xsd:element>
```

parentId: The identifier of the parent node from which to begin to remove descendent nodes. This element MUST be present.

3.8.4.60.2.2 RemoveContextExpressionSubtreeResponse

The **RemoveContextExpressionSubtreeResponse** element contains result data for a **RemoveContextExpressionSubtree** operation.

```
<xsd:element name="RemoveContextExpressionSubtreeResponse ">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveContextExpressionSubtreeResult"
type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveContextExpressionSubtreeResult: The value MUST be **true** if the nodes were deleted; otherwise, the value MUST be **false**.

3.8.4.60.3 Complex Types

None.

3.8.4.60.4 Simple Types

None.

3.8.4.60.5 Attributes

None.

3.8.4.60.6 Groups

None.

3.8.4.60.7 Attribute Groups

None.

3.8.4.61 ContainsContextExpression

The **ContainsContextExpression** operation checks whether a given context expression node has a descendant with the given identifier.

```
<wsdl:operation name="ContainsContextExpression">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpression" message="tns:KeywordService_ContainsContextExpression_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionResponse"
message="tns:KeywordService_ContainsContextExpression_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_ContainsContextExpression_InputMessage** request message. On successful completion, the protocol server MUST respond with a **KeywordService_ContainsContextExpression_OutputMessage** response message.

3.8.4.61.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.61.1.1 KeywordService_ContainsContextExpression_InputMessage

The **KeywordService_ContainsContextExpression_InputMessage** request message initiates the check for node containment.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsContextExpr
ession
```

The SOAP body MUST contain a **ContainsContextExpression** element.

3.8.4.61.1.2   KeywordService_ContainsContextExpression_OutputMessage

The **KeywordService_ContainsContextExpression_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_ContainsContextExpression_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsContextExpr
essionResponse
```

The SOAP body MUST contain a **ContainsContextExpressionResponse** element.

3.8.4.61.1.3 KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage

The **KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_ContainsContextExpression_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the response message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/ContainsContextExpr
essionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.61.2   Elements

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

3.8.4.61.2.1   ContainsContextExpression

The **ContainsContextExpression** element contains input data for a **ContainsContextExpression** operation.

```
<xsd:element name="ContainsContextExpression">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="nodeId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

parentId: The node identifier of the parent from which to begin checking for containment. This element MUST be present.

nodeId: The node identifier for which to check for containment. This element MUST be present.

3.8.4.61.2.2 ContainsContextExpressionResponse

The **ContainsContexExpression** element contains result data for a **ContainsContextExpression** operation.

```
<xsd:element name="ContainsContextExpressionResponse">
   <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContainsContextExpressionResult"
type="xsd:boolean"/>
      </xsd:sequence>
   </xsd:complexType>
 </xsd:element>
```

ContainsContextExpressionResult: This value MUST be **true** if the context expression node has a descendant with the given identifier; otherwise, this value is **false**.

3.8.4.61.3 Complex Types

None.

3.8.4.61.4 Simple Types

None.

3.8.4.61.5 Attributes

None.

3.8.4.61.6 Groups

None.

3.8.4.61.7 Attribute Groups

None.

3.8.4.62 RemoveContextExpressionSubtreeIncludingParent

The **RemoveContextExpressionSubtreeIncludingParent** operation deletes a context expression node and all its descendant nodes.

```
<wsdl:operation name="RemoveContextExpressionSubtreeIncludingParent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParent"
message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
```

```
ContextExpressionSubtreeIncludingParentResponse"
message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFa
ult_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage
request message. On successful completion, the protocol server MUST respond with a
KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage
response message.

3.8.4.62.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.62.1.1 KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage

The **KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage**
request message initiates the removal of the context expression node and all its descendant nodes.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtreeIncludingParent
```

The SOAP body MUST contain a **RemoveContextExpressionSubtreeIncludingParent** element.

3.8.4.62.1.2 KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage

The **KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage**
response message is sent in reply to the request that is initiated by the
KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage
message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtreeIncludingParentResponse
```

The SOAP body MUST contain a **RemoveContextExpressionSubtreeIncludingParentResponse**
element.

3.8.4.62.1.3 KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFault_FaultMessage

The **KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveContextExpres
sionSubtreeIncludingParentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.62.2 Elements

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

3.8.4.62.2.1 RemoveContextExpressionSubtreeIncludingParent

The **RemoveContextExpressionSubtreeIncludingParent** element contains input data for a **RemoveContextExpressionSubtreeIncludingParent** operation.

```
<xsd:element name="RemoveContextExpressionSubtreeIncludingParent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

parentId: The identifier of the context expression node to delete. This element MUST be present.

3.8.4.62.2.2 RemoveContextExpressionSubtreeIncludingParentResponse

The **RemoveContextExpressionSubtreeIncludingParentResponse** element contains output data for a **RemoveContextExpressionSubtreeIncludingParent** operation.

```
<xsd:element name="RemoveContextExpressionSubtreeIncludingParentResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RemoveContextExpressionSubtreeIncludingParentResult"
type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RemoveContextExpressionSubtreeIncludingParentResult: The value MUST be **true** if the descending nodes and parent was deleted; otherwise, the value MUST be **false**.

3.8.4.62.3 Complex Types

None.

3.8.4.62.4 Simple Types

None.

3.8.4.62.5 Attributes

None.

3.8.4.62.6 Groups

None.

3.8.4.62.7 Attribute Groups

None.

3.8.4.63 GetContextExpressionCount

The **GetContextExpressionCount** operation counts the number of descendant context expression nodes for a given context expression node.

```
<wsdl:operation name="GetContextExpressionCount">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCount" message="tns:KeywordService_GetContextExpressionCount_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountResponse"
message="tns:KeywordService_GetContextExpressionCount_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetContextExpressionCount_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_GetContextExpressionCount_OutputMessage** response message.

3.8.4.63.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.63.1.1 KeywordService_GetContextExpressionCount_InputMessage

The **KeywordService_GetContextExpressionCount_InputMessage** request message initiates the counting of context expression nodes.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nCount
```

The SOAP body MUST contain a **GetContextExpressionCount** element.

3.8.4.63.1.2   KeywordService_GetContextExpressionCount_OutputMessage

The **KeywordService_GetContextExpressionCount_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetContextExpressionCount_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nCountResponse
```

The SOAP body MUST contain a **GetContextExpressionCountResponse** element.

3.8.4.63.1.3
KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetContextExpressionCount_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nCountAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.63.2   Elements

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

3.8.4.63.2.1   GetContextExpressionCount

The **GetContextExpressionCount** element contains input data for a **GetContextExpressionCount** operation.

```
<xsd:element name="GetContextExpressionCount">
   <xsd:complexType>
      <xsd:sequence>
         <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

parentId: The identifier of the context expression node for which to count descendants. This element MUST be present.

3.8.4.63.2.2 GetContextExpressionCountResponse

The **GetContextExpressionCountResponse** element contains output data for a **GetContextExpressionCount** operation.

```
<xsd:element name="GetContextExpressionCountResponse">
   <xsd:complexType>
     <xsd:sequence>
        <xsd:element minOccurs="0" name="GetContextExpressionCountResult" type="xsd:int"/>
     </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

GetContextExpressionCountResult: The number of context expression nodes.

3.8.4.63.3 Complex Types

None.

3.8.4.63.4 Simple Types

None.

3.8.4.63.5 Attributes

None.

3.8.4.63.6 Groups

None.

3.8.4.63.7 Attribute Groups

None.

3.8.4.64 AddContextExpressionAggregateNode

The **AddContextExpressionAggregateNode** operation adds an aggregate context expression node to another aggregate context expression node on the protocol server.

```
<wsdl:operation name="AddContextExpressionAggregateNode">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNode"
message="tns:KeywordService_AddContextExpressionAggregateNode_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeResponse"
message="tns:KeywordService_AddContextExpressionAggregateNode_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
```

```
message="tns:KeywordService_AddContextExpressionAggregateNode_AdminExceptionWCFFault_FaultMes
sage"/>
    </wsdl:operation>
```

The protocol client MUST send a
KeywordService_AddContextExpressionAggregateNode_InputMessage request message. On
successful completion, the protocol server MUST respond with a
KeywordService_AddContextExpressionAggregateNode_OutputMessage response message.

3.8.4.64.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.64.1.1 KeywordService_AddContextExpressionAggregateNode_InputMessage

The **KeywordService_AddContextExpressionAggregateNode_InputMessage** request message
initiates the addition of the aggregate context expression node.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAggregateNode
```

The SOAP body MUST contain an **AddContextExpressionAggregateNode** element.

3.8.4.64.1.2 KeywordService_AddContextExpressionAggregateNode_OutputMessage

The **KeywordService_AddContextExpressionAggregateNode_OutputMessage** response
message is sent in reply to the request that is initiated by the
KeywordService_AddContextExpressionAggregateNode_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAggregateNodeResponse
```

The SOAP body MUST contain an **AddContextExpressionAggregateNodeResponse** element.

3.8.4.64.1.3 KeywordService_AddContextExpressionAggregate_AdminExceptionWCFFault_FaultMessage

The
KeywordService_AddContextExpressionAggregate_AdminExceptionWCFFault_FaultMessage response message is sent in reply to the request that is initiated by the
KeywordService_AddContextExpressionAggregateNode_InputMessage message. The
protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAggregateNodeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.64.2 Elements

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

3.8.4.64.2.1 AddContextExpressionAggregateNode

The **AddContextExpressionAggregateNode** element contains input data for an
AddContextExpressionAggregateNode operation.

```
<xsd:element name="AddContextExpressionAggregateNode">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

contextId: The identifier of the context to which this context expression node belongs. This
element MUST be present.

parentId: The identifier of the parent context expression node of this node in the context
expression. This element MUST be present and the specified parent MUST be an aggregate context
expression node which is associated with the same search setting context that was specified by the
contextId element.

type: The type of the context expression node. This element MUST be present and its value MUST
be **AND**, **OR**, or **NOT**.

3.8.4.64.2.2 AddContextExpressionAggregateNodeResponse

The **AddContextExpressionAggregateNodeResponse** element contains output data for an
AddContextExpressionAggregateNode operation.

```
<xsd:element name="AddContextExpressionAggregateNodeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddContextExpressionAggregateNodeResult"
nillable="true" type="tns:ContextExpressionDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

AddContextExpressionAggregateNodeResult: The elements of the added aggregate context
expression node.

3.8.4.64.3 Complex Types

None.

3.8.4.64.4 Simple Types

None.

3.8.4.64.5 Attributes

None.

3.8.4.64.6 Groups

None.

3.8.4.64.7 Attribute Groups

None.

3.8.4.65 AddContextExpressionAtomicNode

The **AddContextExpressionAtomicNode** operation adds an atomic context expression node to a context expression tree on the protocol server.

```
<wsdl:operation name="AddContextExpressionAtomicNode">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNode"
message="tns:KeywordService_AddContextExpressionAtomicNode_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeResponse"
message="tns:KeywordService_AddContextExpressionAtomicNode_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessag
e"/>
</wsdl:operation>
```

The protocol client MUST send a
KeywordService_AddContextExpressionAtomicNode_InputMessage request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_AddContextExpressionAtomicNode_OutputMessage** response message.

3.8.4.65.1 Messages

The following WSDL message definitions are specific to this operation.

3.8.4.65.1.1 KeywordService_AddContextExpressionAtomicNode_InputMessage

The **KeywordService_AddContextExpressionAtomicNode_InputMessage** request message initiates the addition of the atomic context expression node to the context expression tree.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAtomicNode
```

The SOAP body MUST contain an **AddContextExpressionAtomicNode** element.

3.8.4.65.1.2 KeywordService_AddContextExpressionAtomicNode_OutputMessage

The **KeywordService_AddContextExpressionAtomicNode_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddContextExpressionAtomicNode_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAtomicNodeResponse
```

The SOAP body MUST contain an **AddContextExpressionAtomicNodeResponse** element.

3.8.4.65.1.3 KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessage

The **KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_AddContextExpressionAtomicNode_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddContextExpressio
nAtomicNodeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.65.2 Elements

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

3.8.4.65.2.1 AddContextExpressionAtomicNode

The **AddContextExpressionAtomicNode** element contains input data for an **AddContextExpressionAtomicNode** operation.

```
<xsd:element name="AddContextExpressionAtomicNode">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="key" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="value" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes"/>
    </xsd:sequence>
```

```
    </xsd:complexType>
  </xsd:element>
```

contextId: The identifier of the context to which this context expression node belongs. This element MUST be present.

parentId: The identifier of the parent context expression node of this node in the context expression. This element MUST be present and the specified parent MUST be an aggregate context expression node which is associated with the same search setting context that was specified by the **contextId** element.

key: The key of the context expression node. This value MUST be present and MUST not be **null**.

value: The value of the context expression node.

type: The type of the context expression node. This element MUST be present and its value MUST be "MATCH".

3.8.4.65.2.2   AddContextExpressionAtomicNodeResponse

The **AddContextExpressionAtomicNodeResponse** element contains result data for an **AddContextExpressionAtomicNode** operation.

```
  <xsd:element name="AddContextExpressionAtomicNodeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="AddContextExpressionAtomicNodeResult" nillable="true"
  type="tns:ContextExpressionDTO"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

AddContextExpressionAtomicNodeResult: The elements of the added atomic context expression node.

3.8.4.65.3   Complex Types

None.

3.8.4.65.4   Simple Types

None.

3.8.4.65.5   Attributes

None.

3.8.4.65.6   Groups

None.

3.8.4.65.7   Attribute Groups

None.

3.8.4.66   GetContextExpressionTree

The **GetContextExpressionTree** operation retrieves all the descendant context expression nodes of a given context expression node.

```
<wsdl:operation name="GetContextExpressionTree">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTree" message="tns:KeywordService_GetContextExpressionTree_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTreeResponse"
message="tns:KeywordService_GetContextExpressionTree_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTreeAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **KeywordService_GetContextExpressionTree_InputMessage** request message. When the operation finishes successfully, the protocol server MUST respond with a **KeywordService_GetContextExpressionTree_OutputMessage** response message.

3.8.4.66.1   Messages

The following WSDL message definitions are specific to this operation.

3.8.4.66.1.1   KeywordService_GetContextExpressionTree_InputMessage

The **KeywordService_GetContextExpressionTree_InputMessage** request message initiates the retrieval of the context expression nodes.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nTree
```

The SOAP body MUST contain a **GetContextExpressionTree** element.

3.8.4.66.1.2   KeywordService_GetContextExpressionTree_OutputMessage

The **KeywordService_GetContextExpressionTree_OutputMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetContextExpressionTree_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nTreeResponse
```

The SOAP body MUST contain a **GetContextExpressionTreeResponse** element.

3.8.4.66.1.3 KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage

The **KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **KeywordService_GetContextExpressionTree_InputMessage** message. The protocol server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetContextExpressio
nTreeAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.8.4.66.2 Elements

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

3.8.4.66.2.1 GetContextExpressionTree

The **GetContextExpressionTree** element contains input data for a **GetContextExpressionTree** operation.

```
<xsd:element name="GetContextExpressionTree">
   <xsd:complexType>
      <xsd:sequence>
         <xsd:element minOccurs="0" name="parentId" type="xsd:long"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

parentId: The identifier of the parent from which to retrieve the context expression nodes.

3.8.4.66.2.2 GetContextExpressionTreeResponse

The **GetContextExpressionTreeResponse** element contains result data for a **GetContextExpressionTree** operation.

```
<xsd:element name="GetContextExpressionTreeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetContextExpressionTreeResult" nillable="true"
type="tns:ArrayOfContextExpressionDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetContextExpressionTreeResult: An array of **ContextExpressionDTO**.

3.8.4.66.3 Complex Types

The XML Schema complex type definitions in the following sections are specific to this operation.

3.8.4.66.3.1 ArrayOfContextExpressionDTO

The **ArrayOfContextExpressionDTO** complex type contains an array of **ContextExpressionDTO**. This array contains zero, one, or more context expression node elements.

```
<xsd:complexType name="ArrayOfContextExpressionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="ContextExpressionDTO"
nillable="true" type="tns:ContextExpressionDTO"/>
  </xsd:sequence>
</xsd:complexType>
```

3.8.4.66.4 Simple Types

None.

3.8.4.66.5 Attributes

None.

3.8.4.66.6 Groups

None.

3.8.4.66.7 Attribute Groups

None.

3.8.5 Timer Events

None.

3.8.6 Other Local Events

None.

3.9 SchemaService Server Details

This service provides operations related to schema management. The schema is the basis of the configuration of the search application.

3.9.1 Abstract Data Model

This section describes a conceptual model of a possible organization of data 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.

The schema service is responsible for managing the search index configuration, relevance configuration, and metadata processing configuration. Through the schema service, a protocol client can create new managed properties to store searchable data in, configure which crawled properties are associated with managed properties, and control how searches are evaluated against these managed properties. The schema service also contains operations to create full-text index fields based on managed properties, making it possible to search the content of multiple managed properties at a time.

The protocol server MUST maintain collections of the following:

Crawled property: A crawled property is an element of documents discovered by the search application during content feeding. Examples of crawled properties include titles of web pages, or authors of documents.

Crawled property categories: A named grouping of crawled properties, which allows several crawled properties to be managed together.

Managed property: An element of an item stored in a search system. Managed properties are part of the search user experience and the schema service control properties on managed properties, such as stemming, sorting, and summary settings.

Crawled property mappings: A list of mappings from crawled property to managed properties. The schema service contains operations for associating crawled properties with managed properties, causing the managed properties to be populated with content from the crawled properties. These mappings are used by the item processing service when receiving new content (see [MS-FSO] section 2.1.1.4).

Full-text index field: A grouping of managed properties in the search system, which enables the content of managed properties to be searchable. Each managed property has an importance level in a full-text index field, enabling rank profiles to control how the content of managed properties contributes to the relevancy rank of indexed items.

Full-text index fields mappings: Managed properties can be searched individually (if configured to be searchable) or as part of a full-text index field. The schema service contains operations for controlling which managed properties are mapped into a full-text index field, and at what importance level they are. These mappings are used by the item processing service when receiving new content (see [MS-FSO] section 2.1.1.4).

Refiner: A set of configuration settings that control how items in search results are aggregated into categories, known as refiners. The settings include sorting options and categorization algorithm options. The categorization of items is calculated by using the contents of a managed property to which the refiner is associated.

Rank profile: A group of relevance settings that the search system uses to influence the ranking of search results when searching one or more full-text index fields.

Each rank profile instance MUST in addition maintain collections of the following:

Quality rank component: An element of a rank profile that allows high-quality items to receive a higher relevancy rank. The quality of items is determined by an implementation-specific algorithm. The Quality rank component lists which internal properties are used to calculate the final quality rank.

Keyword rank component: An element of a rank profile that allows items containing certain terms to receive a higher relevancy rank. This collection consists of a list of terms and boost values which specify by what amount to increase the relevance rank if the term exists in the document.

Full-text index rank component: An element of a rank profile that determines how the importance levels of managed properties in a full-text index field and the position of occurrences of queried terms within managed properties contribute to the relevancy rank of documents.

In addition, the protocol server MUST maintain the following states:

DefaultFullTextIndex: The full-text index field to search if no full-text index field is specified.

DefaultRankProfile: The rank-profile to use for sorting if no rank profile or sorting is specified in a query against the search application.

An example of how this could be implemented and persisted can be found in [MS-FSADS].

The schema service operations are used to configure several other components of the search system. The configuration is done by generating new versions of configuration files, which are uploaded to the configuration server through the protocols specified in [MS-FSCMW] or [MS-FSCX]. The components in the search system subscribes to updates on configuration files they use, and will receive a notification from the configuration server when they are updated.

The configuration files that the protocol server MUST support updating can be divided into two classes, which are described in the following table.

Class	Specified in	Description
Processing	[MS-FSPSCFG]	Files used by the item processing service.
Search and Indexing	[MS-FSSCFG] and [MS-FSQRCFG]	Files containing specifications of the search index content and layout.

Each operation that leads to an update of a configuration file specifies which files that MUST be updated. Some of the operations update the configuration asynchronously.

All operations that generate new configuration files MUST publish these through the [MS-FSCMW] or [MS-FSCX] protocol.

3.9.2 Timers

None.

3.9.3 Initialization

None.

3.9.4 Message Processing Events and Sequencing Rules

The following table specifies message processing events and sequencing rules.

Operation	Description
ContainsCategory	Checks whether a crawled property is associated with a crawled property category.
ContainsCategoryByName	Checks for the existence of a crawled property category.
ContainsFullTextIndex	Checks for the existence of a full-text index field.

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Operation	Description
ContainsManagedProperty	Checks whether a managed property exists.
ContainsRankProfile	Checks whether a rank profile exists.
CreateCategoryProperty	Creates a crawled property category.
CreateCrawledProperties	Creates a set of crawled properties.
CreateCrawledProperty	Creates a crawled property.
CreateCrawledPropertySimple	Creates a crawled property.
CreateFullTextIndex	Creates a full-text index field.
CreateFullTextIndexMapping	Includes a managed property in a full-text index field.
CreateFullTextIndexRankComponent	Creates a full-text index field rank component in a rank profile.
CreateManagedProperty	Creates a managed property.
CreateManagedPropertyBoostComponent	Creates a keyword rank component in a rank profile.
CreateManagedPropertyMinimal	Creates a minimal managed property.
CreateQualityComponent	Creates a quality rank component in a rank profile.
CreateRankProfile	Creates a rank profile.
CreateRankProfileWithDefaults	Creates a rank profile with default settings.
DeleteCategory	Deletes a crawled property category.
DeleteFullTextIndex	Deletes a full-text index field.
DeleteFullTextIndexMapping	Removes a managed property from a full-text index field.
DeleteFullTextIndexRankComponent	Deletes a full-text index field rank component of a rank profile.
DeleteManagedProperty	Deletes a managed property.
DeleteManagedPropertyBoostComponent	Deletes a keyword rank component of a rank profile.
DeleteQualityComponent	Deletes a quality rank component in a rank profile.
DeleteRankProfile	Deletes a rank profile.
DeleteUnmappedProperties	Deletes unmapped properties in a crawled property category.
GetAllCategories	Retrieves all categories.
GetAllCrawledProperties	Retrieves all crawled properties from a crawled property category.
GetAllCrawledPropertiesCount	Retrieves the count of crawled properties from a crawled property category.

Operation	Description
GetAllFullTextIndecies	Retrieves all full-text index fields.
GetAllManagedProperties	Retrieves all managed properties.
GetAllRankProfiles	Retrieves all rank profiles.
GetCategory	Retrieves a crawled property category.
GetCategoryByName	Retrieves a crawled property category by name.
GetCrawledProperty	Retrieves a crawled property.
GetCrawledPropertyMappings	Retrieves a mapping of crawled properties.
GetFreshnessManagedPropertyReference	Retrieves a freshness managed property reference from a rank profile.
GetFullTextIndex	Retrieves a full-text index field .
GetFullTextIndexMappings	Retrieves the full-text index fields that include a managed property.
GetFullTextIndexRankCollection	Retrieves the full-text index rank collection from a rank profile.
GetImportanceLevelWeight	Retrieves the importance level weight from a rank profile.
GetManagedProperty	Retrieves a managed property from a rank profile.
GetManagedPropertyBoostCollection	Retrieves a managed property boost collection from a rank profile.
GetManagedPropertyById	Retrieves a managed property by identifier.
GetMappedManagedProperties	Retrieves the mapped managed properties of a crawled property.
GetMappingsForLevel	Retrieves the mappings for a level from a full-text index field.
GetPropsetCategoryMappings	Retrieves all the GUIDs associated with a crawled property category.
GetQualityComponentCollection	Retrieves a quality rank component collection from a rank profile.
GetQueryCrawledProperties	Retrieves the crawled properties.
GetQueryCrawledPropertiesByWildcard	Retrieves the crawled properties.
GetRankProfile	Retrieves the rank profile.
GetRefinerConfiguration	Retrieves the refiner configuration from a managed property.
GetUnmappedCrawledProperties	Retrieves unmapped crawled properties from a crawled property category.

Operation	Description
MakeDefaultFullTextIndex	Makes a full-text index field the default one to use in searches.
MakeDefaultRankProfile	Makes a rank profile the default one to use in searches.
QueryCrawledProperties	Retrieves crawled properties from a crawled property category.
SetCrawledPropertyMappings	Sets crawled property mappings.
SetFreshnessManagedPropertyReference	Sets the freshness managed property reference of a rank profile.
SetImportanceLevelWeight	Sets the importance level weight of a rank profile.
SetPropsetCategoryMappings	Associates GUIDs with a crawled property category.
SetRefinerConfiguration	Sets the refiner configuration of a managed property.
SetResultFallback	Sets the result fallback of a managed property.
UpdateCategory	Updates a crawled property category.
UpdateCrawledProperty	Updates a crawled property.
UpdateFullTextIndex	Updates a full-text index field.
UpdateFullTextIndexRankComponent	Updates the full-text index field rank component of a rank profile.
UpdateManagedProperty	Updates a managed property.
UpdateManagedPropertyBoostComponent	Updates a keyword rank component.
UpdateQualityComponent	Updates the quality rank component of a rank profile.
UpdateRankProfile	Updates a rank profile.

3.9.4.1 ContainsCategory

The **ContainsCategory** operation checks whether a crawled property category that is identified by a given GUID exists in the search application.

```
<wsdl:operation name="ContainsCategory">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategory" message="tns:SchemaService_ContainsCategory_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategoryResponse" message="tns:SchemaService_ContainsCategory_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategoryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_ContainsCategory_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_ContainsCategory_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_ContainsCategory_OutputMessage** response message.

3.9.4.1.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.1.1.1   SchemaService_ContainsCategory_InputMessage

The **SchemaService_ContainsCategory_InputMessage** request message initiates the operation to check whether the given crawled property category exists in the search system.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsCategory
```

The SOAP body MUST contain a **ContainsCategory** element.

3.9.4.1.1.2   SchemaService_ContainsCategory_OutputMessage

The **SchemaService_ContainsCategory_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsCategory_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsCategoryResp
onse
```

The SOAP body MUST contain a **ContainsCategoryResponse** element.

3.9.4.1.1.3   SchemaService_ContainsCategory_AdminExceptionWCFFault_FaultMessage

The **SchemaService_ContainsCategory_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsCategory_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsCategoryAdmi
nExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.1.2   Elements

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

3.9.4.1.2.1   ContainsCategory

The **ContainsCategory** element contains the input data for a **ContainsCategory** operation.

```
<xsd:element name="ContainsCategory">
  <xsd:complexType>
    <xsd:sequence>
        <xsd:element minOccurs="0" name="propset" type="ser:guid"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

propset: A GUID that identifies a crawled property category.

3.9.4.1.2.2   ContainsCategoryResponse

The **ContainsCategoryResponse** element contains the output data for a **ContainsCategory** operation. The response contains a Boolean value that specifies whether the crawled property category exists in the search application.

```
<xsd:element name="ContainsCategoryResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsCategoryResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsCategoryResult: The value MUST be **true** if the crawled property is associated with a crawled property category; otherwise, the value MUST be **false**.

3.9.4.1.3   Complex Types

None.

3.9.4.1.4   Simple Types

None.

3.9.4.1.5   Attributes

None.

3.9.4.1.6   Groups

None.

3.9.4.1.7   Attribute Groups

None.

3.9.4.2   ContainsCategoryByName

The **ContainsCategoryByName** operation checks whether a named crawled property category exists.

```
<wsdl:operation name="ContainsCategoryByName">
```

```
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByName" message="tns:SchemaService_ContainsCategoryByName_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByNameResponse"
message="tns:SchemaService_ContainsCategoryByName_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByNameAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_ContainsCategoryByName_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_ContainsCategoryByName_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_ContainsCategoryByName_OutputMessage** response message.

3.9.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.2.1.1 SchemaService_ContainsCategoryByName_InputMessage

The **SchemaService_ContainsCategoryByName_InputMessage** request message initiates the operation that checks for the existence of a named crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByName
```

The SOAP body MUST contain a **ContainsCategoryByName** element.

3.9.4.2.1.2 SchemaService_ContainsCategoryByName_OutputMessage

The **SchemaService_ContainsCategoryByName_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsCategoryByName_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByNameResponse
```

The SOAP body MUST contain a **ContainsCategoryByNameResponse** element.

3.9.4.2.1.3 SchemaService_ContainsCategoryByName_AdminExceptionWCFFault_FaultMessage

The **SchemaService_ContainsCategoryByName_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsCategoryByName_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsCategoryByNameAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.2.2 Elements

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

3.9.4.2.2.1 ContainsCategoryByName

The **ContainsCategoryByName** element contains the input data for a **ContainsCategoryByName** operation.

```
<xsd:element name="ContainsCategoryByName">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the crawled property category for which to check.

3.9.4.2.2.2 ContainsCategoryByNameResponse

The **ContainsCategoryByNameResponse** element is the output data for a **ContainsCategoryByName** operation. The response contains a Boolean value that specifies whether the crawled property category exists.

```
<xsd:element name="ContainsCategoryByNameResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsCategoryByNameResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsCategoryByNameResult: The value MUST be **true** if the crawled property category exists; otherwise, the value MUST be **false**.

3.9.4.2.3 Complex Types

None.

3.9.4.2.4 Simple Types

None.

3.9.4.2.5   Attributes

None.

3.9.4.2.6   Groups

None.

3.9.4.2.7   Attribute Groups

None.

3.9.4.3   ContainsFullTextIndex

The **ContainsFullTextIndex** operation checks whether a full-text index field exists.

```
<wsdl:operation name="ContainsFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsFullTextIndex" message="tns:SchemaService_ContainsFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsFullTextIndexResponse"
message="tns:SchemaService_ContainsFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_ContainsFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_ContainsFullTextIndex_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_ContainsFullTextIndex_OutputMessage** response message.

3.9.4.3.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.3.1.1   SchemaService_ContainsFullTextIndex_InputMessage

The **SchemaService_ContainsFullTextIndex_InputMessage** request message initiates the operation that checks for the existence of a full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsFullTextInde
x
```

The SOAP body MUST contain a **ContainsFullTextIndex** element.

3.9.4.3.1.2   SchemaService_ContainsFullTextIndex_OutputMessage

The **SchemaService_ContainsFullTextIndex_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsFullTextIndex_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsFullTextInde
xResponse
```

The SOAP body MUST contain a **ContainsFullTextIndexResponse** element.

3.9.4.3.1.3 SchemaService_ContainsFullTextIndex_AdminExceptionWCFFault_FaultMessage

The **SchemaService_ContainsFullTextIndex_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsFullTextIndex_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.3.2 Elements

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

3.9.4.3.2.1 ContainsFullTextIndex

The **ContainsFullTextIndex** element contains the input data for a **ContainsFullTextIndex** operation.

```
<xsd:element name="ContainsFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the index to check.

3.9.4.3.2.2 ContainsFullTextIndexResponse

The **ContainsFullTextIndexResponse** element contains the output data for a **ContainsFullTextIndex** operation. The response contains a Boolean value that specifies whether the full-text index field exists.

```
<xsd:element name="ContainsFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsFullTextIndexResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>
```

ContainsFullTextIndexResult: The value MUST be **true** if the full-text index field exists; otherwise, the value MUST be **false**.

3.9.4.3.3 Complex Types

None.

3.9.4.3.4 Simple Types

None.

3.9.4.3.5 Attributes

None.

3.9.4.3.6 Groups

None.

3.9.4.3.7 Attribute Groups

None.

3.9.4.4 ContainsManagedProperty

The **ContainsManagedProperty** operation checks whether a managed property exists.

```
<wsdl:operation name="ContainsManagedProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedProperty" message="tns:SchemaService_ContainsManagedProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedPropertyResponse"
message="tns:SchemaService_ContainsManagedProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_ContainsManagedProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_ContainsManagedProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_ContainsManagedProperty_OutputMessage** response message.

3.9.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.4.1.1 SchemaService_ContainsManagedProperty_InputMessage

The **SchemaService_ContainsManagedProperty_InputMessage** request message initiates a check for the existence of a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedProperty
```

The SOAP body MUST contain a **ContainsManagedProperty** element.

3.9.4.4.1.2 SchemaService_ContainsManagedProperty_OutputMessage

The **SchemaService_ContainsManagedProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsManagedProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedPropertyResponse
```

The SOAP body MUST contain a **ContainsManagedPropertyResponse** element.

3.9.4.4.1.3 SchemaService_ContainsManagedProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_ContainsManagedProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsManagedProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsManagedPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.4.2 Elements

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

3.9.4.4.2.1 ContainsManagedProperty

The **ContainsManagedProperty** element contains the input data for a **ContainsManagedProperty** operation.

```
<xsd:element name="ContainsManagedProperty">
  <xsd:complexType>
    <xsd:sequence>
```

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

name: The name of the managed property.

3.9.4.4.2.2 ContainsManagedPropertyResponse

The **ContainsManagedPropertyResponse** element contains the output data for a **ContainsManagedProperty** operation. The response contains a Boolean value that specifies whether the managed property exists.

```
<xsd:element name="ContainsManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsManagedPropertyResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsManagedPropertyResult: The value MUST be **true** if a managed property exists; otherwise, the value MUST be **false**.

3.9.4.4.3 Complex Types

None.

3.9.4.4.4 Simple Types

None.

3.9.4.4.5 Attributes

None.

3.9.4.4.6 Groups

None.

3.9.4.4.7 Attribute Groups

None.

3.9.4.5 ContainsRankProfile

The **ContainsRankProfile** operation checks whether a rank profile exists.

```
<wsdl:operation name="ContainsRankProfile">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsRankProfile" message="tns:SchemaService_ContainsRankProfile_InputMessage"/>
```

```
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsRankProfileResponse" message="tns:SchemaService_ContainsRankProfile_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_ContainsRankProfile_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_ContainsRankProfile_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_ContainsRankProfile_OutputMessage** response message.

3.9.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.5.1.1 SchemaService_ContainsRankProfile_InputMessage

The **SchemaService_ContainsRankProfile_InputMessage** request message initiates the operation to check whether a rank profile exists.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsRankProfile
```

The SOAP body MUST contain a **ContainsRankProfile** element.

3.9.4.5.1.2 SchemaService_ContainsRankProfile_OutputMessage

The **SchemaService_ContainsRankProfile_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ContainsRankProfileR
esponse
```

The SOAP body MUST contain a **ContainsRankProfileResponse** element.

3.9.4.5.1.3 SchemaService_ContainsRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_ContainsRankProfile_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_ContainsRankProfile_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
ContainsRankProfileAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.5.2 Elements

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

3.9.4.5.2.1 ContainsRankProfile

The **ContainsRankProfile** element contains the input data for a **ContainsRankProfile** operation.

```
<xsd:element name="ContainsRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the rank profile to check.

3.9.4.5.2.2 ContainsRankProfileResponse

The **ContainsRankProfileResponse** element contains the output data for a **ContainsRankProfile** operation. The response contains a Boolean value that specifies whether the rank profile exists.

```
<xsd:element name="ContainsRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsRankProfileResult" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ContainsRankProfileResult: The value MUST be **true** if rank profile exists; otherwise, the value MUST be **false**.

3.9.4.5.3 Complex Types

None.

3.9.4.5.4 Simple Types

None.

3.9.4.5.5 Attributes

None.

3.9.4.5.6 Groups

None.

3.9.4.5.7 Attribute Groups

None.

3.9.4.6 CreateCategoryProperty

The **CreateCategoryProperty** operation creates a crawled property category. This operation MUST update the PropertyCategories.xml file, see [MS-FSPSCFG] section 2.3.

```
<wsdl:operation name="CreateCategoryProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryProperty" message="tns:SchemaService_CreateCategoryProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryPropertyResponse"
message="tns:SchemaService_CreateCategoryProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateCategoryProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateCategoryProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateCategoryProperty_OutputMessage** response message.

3.9.4.6.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.6.1.1 SchemaService_CreateCategoryProperty_InputMessage

The **SchemaService_CreateCategoryProperty_InputMessage** request message initiates the operation to create a crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryProperty
```

The SOAP body MUST contain a **CreateCategoryProperty** element.

3.9.4.6.1.2 SchemaService_CreateCategoryProperty_OutputMessage

The **SchemaService_CreateCategoryProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCategoryProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryPropertyResponse
```

The SOAP body MUST contain a **CreateCategoryPropertyResponse** element.

3.9.4.6.1.3 SchemaService_CreateCategoryProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateCategoryProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCategoryProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCategoryPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.6.2 Elements

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

3.9.4.6.2.1 CreateCategoryProperty

The **CreateCategoryProperty** element contains the input data for a **CreateCategoryProperty** operation.

```
<xsd:element name="CreateCategoryProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="1" name="name" type="xsd:string"/>
      <xsd:element minOccurs="0" name="Propset" type="ser:guid"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the crawled property category to create.

Propset: A GUID that is associated with the crawled property category. A crawled property category can be associated with multiple GUIDs using SetPropsetCategoryMappings after it has been created.

3.9.4.6.2.2 CreateCategoryPropertyResponse

The **CreateCategoryPropertyResponse** element contains the output data from a **CreateCategoryProperty** operation. The response contains a **CategoryDTO**.

```
<xsd:element name="CreateCategoryPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCategoryPropertyResult" nillable="true"
type="tns:CategoryDTO" />
    </xsd:sequence>
  </xsd:complexType>
```

```
        </xsd:element>
```

CreateCategoryPropertyResult: The elements of the created crawled property category.

3.9.4.6.3 Complex Types

None.

3.9.4.6.4 Simple Types

None.

3.9.4.6.5 Attributes

None.

3.9.4.6.6 Groups

None.

3.9.4.6.7 Attribute Groups

None.

3.9.4.7 CreateCrawledProperties

The **CreateCrawledProperties** operation creates a set of crawled properties. The operation MUST update the internal state of the protocol server, but the operation does not lead to any configuration files being updated.

```
<wsdl:operation name="CreateCrawledProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledProperties" message="tns:SchemaService_CreateCrawlProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertiesResponse"
message="tns:SchemaService_CreateCrawledProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateCrawledProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateCrawledProperties_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateCrawledProperties_OutputMessage** response message.

3.9.4.7.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.7.1.1 SchemaService_CreateCrawledProperties_InputMessage

The **SchemaService_CreateCrawledProperties_InputMessage** request message initiates the operation to create a set of crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateCrawledProperties
```

The SOAP body MUST contain a **CreateCrawledProperties** element.

3.9.4.7.1.2 SchemaService_CreateCrawledProperties_OutputMessage

The **SchemaService_CreateCrawledProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateCrawledPropertiesResponse
```

The SOAP body MUST contain a **CreateCrawledPropertiesResponse** element.

3.9.4.7.1.3 SchemaService_CreateCrawledProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateCrawledProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.7.2 Elements

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

3.9.4.7.2.1 CreateCrawledProperties

The **CreateCrawledProperties** element contains the input data for a **CreateCrawledProperties** operation.

```
<xsd:element name="CreateCrawlProperties">
  <xsd:complexType>
    <xsd:sequence>
```

```
          <xsd:element minOccurs="0" name="crawledProperties" type="msa: ArrayOfstring"/>
       </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

crawledProperties: The crawled properties to create. Each string value in the array consists of 3 fields that are separated by colons. These fields are specified in the following table.

Field	Description
1	GUID of the crawled property category that is associated with this crawled property.
2	Name of the crawled property.
3	The type of the crawled property, represented by an integer (see section 2.2.4.28 for the list of valid types)

3.9.4.7.2.2   CreateCrawledPropertiesResponse

The **CreateCrawledPropertiesResponse** element contains result data for a **CreateCrawledProperties** operation. The response contains a Boolean value that specifies whether the crawled properties were created.

```
  <xsd:element name="CrawledPropertiesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="CrawledPropertiesResult" type="xsd:boolean"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

CrawledPropertiesResult: The value is **true** if crawl properties were successfully created; otherwise, the value is **false**.

3.9.4.7.3   Complex Types

None.

3.9.4.7.4   Simple Types

None.

3.9.4.7.5   Attributes

None.

3.9.4.7.6   Groups

None.

3.9.4.7.7   Attribute Groups

None.

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3.9.4.8   CreateCrawledProperty

The **CreateCrawledProperty** operation creates a crawled property. This operation updates only the internal state of the protocol server, and does not lead to any configuration files being updated.

```
<wsdl:operation name="CreateCrawledProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledProperty" message="tns:SchemaService_CreateCrawledProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertyResponse"
message="tns:SchemaService_CreateCrawledProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateCrawledProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateCrawledProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateCrawledProperty_OutputMessage** response message.

3.9.4.8.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.8.1.1   SchemaService_CreateCrawledProperty_InputMessage

The **SchemaService_CreateCrawledProperty_InputMessage** request message initiates the operation to create a crawled property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateCrawledProperty
```

The SOAP body MUST contain a **CreateCrawledProperty** element.

3.9.4.8.1.2   SchemaService_CreateCrawledProperty_OutputMessage

The **SchemaService_CreateCrawledProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertyResponse
```

The SOAP body MUST contain a **CreateCrawledPropertyResponse** element.

3.9.4.8.1.3 SchemaService_CreateCrawledProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateCrawledProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.8.2 Elements

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

3.9.4.8.2.1 CreateCrawledProperty

The **CreateCrawledProperty** element contains the input data for a **CreateCrawledProperty** operation.

```
<xsd:element name="CreateCrawledProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="1" name="propertyName" type="xsd:string"/>
      <xsd:element minOccurs="0" name="propset" type="ser:guid"/>
      <xsd:element minOccurs="0" name="variantType" type="xsd:int "/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

propertyName: A string that specifies the name of the crawled property.

propset: The GUID of the crawled property category that is associated with this crawled property. A crawled property MUST be associated with a crawled property category.

variantType: The variant type to be given to the created crawled property. The valid values for this element are specified by the table in section 2.2.4.32.

3.9.4.8.2.2 CreateCrawledPropertyResponse

The **CreateCrawledPropertyResponse** element contains the result data for a **CreateCrawledProperty** operation. The response contains a **CrawledPropertyDTO**.

```
<xsd:element name="CreateCrawledPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCrawledPropertyResult" nillable="true"
type="tns:CrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
</xsd:element>
```

CreateCrawledPropertyResult: A **CrawledPropertyDTO** that contains the elements of the created crawled property.

3.9.4.8.3 Complex Types

None.

3.9.4.8.4 Simple Types

None.

3.9.4.8.5 Attributes

None.

3.9.4.8.6 Groups

None.

3.9.4.8.7 Attribute Groups

None.

3.9.4.9 CreateCrawledPropertySimple

The **CreateCrawledPropertySimple** operation creates a crawled property. This operation differs from **CreateCrawledProperty** in how the input is formatted (see the specification of the **SchemaService_CreateCrawledPropertySimple_InputMessage).** The operation MUST update the internal state of the protocol server, but does not lead to configuration updates outside the protocol server.

```
<wsdl:operation name="CreateCrawledPropertySimple">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimple"
message="tns:SchemaService_CreateCrawledPropertySimple_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimpleResponse"
message="tns:SchemaService_CreateCrawledPropertySimple_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimpleAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateCrawledPropertySimple_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateCrawledPropertySimple_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateCrawledPropertySimple_OutputMessage** response message.

3.9.4.9.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.9.1.1 SchemaService_CreateCrawledPropertySimple_InputMessage

The **SchemaService_CreateCrawledPropertySimple_InputMessage** request message initiates the operation to create a crawled property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimple
```

The SOAP body MUST contain a **CreateCrawledPropertySimple** element.

3.9.4.9.1.2 SchemaService_CreateCrawledPropertySimple_OutputMessage

The **SchemaService_CreateCrawledPropertySimple_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledPropertySimple_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimpleResponse
```

The SOAP body MUST contain a **CreateCrawledPropertySimpleResponse** element.

3.9.4.9.1.3 SchemaService_CreateCrawledPropertySimple_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateCrawledPropertySimple_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateCrawledPropertySimple_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateCrawledPropertySimpleAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.9.2 Elements

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

3.9.4.9.2.1 CreateCrawledPropertySimple

The **CreateCrawledPropertySimple** element contains the input data for a **CreateCrawledPropertySimple** operation.

```
<xsd:element name="CreateCrawledPropertySimple">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="crawledProperty" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

crawledProperty: The crawled property to create. This value consists of 3 fields, separated by colons. These fields are specified in the table in section 3.9.4.7.2.1.

3.9.4.9.2.2 CreateCrawledPropertySimpleResponse

The **CreateCrawledPropertySimpleResponse** element contains the output data for a **CreateCrawledPropertySimple** operation. The response contains a Boolean value that specifies whether the crawled property simple was created.

```
<xsd:element name="CreateCrawledPropertySimpleResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCrawledPropertySimpleResult"
type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateCrawledPropertySimpleResult: The value MUST be **true** if the crawled property was created successfully; otherwise, the value MUST be **false**.

3.9.4.9.3 Complex Types

None.

3.9.4.9.4 Simple Types

None.

3.9.4.9.5 Attributes

None.

3.9.4.9.6 Groups

None.

3.9.4.9.7 Attribute Groups

None.

3.9.4.10 CreateFullTextIndex

The **CreateFullTextIndex** operation creates a new full-text index field. The operation is asynchronous. This operation MUST update the rank.cf, index.cf, indexConfig.xml and FieldProperties.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndex" message="tns:SchemaService_CreateFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexResponse" message="tns:SchemaService_CreateFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateFullTextIndex_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateFullTextIndex_OutputMessage** response message.

3.9.4.10.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.10.1.1 SchemaService_CreateFullTextIndex_InputMessage

The **SchemaService_CreateFullTextIndex_InputMessage** request message initiates the operation to create a new full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateFullTextIndex
```

The SOAP body MUST contain a **CreateFullTextIndex** element.

3.9.4.10.1.2 SchemaService_CreateFullTextIndex_OutputMessage

The **SchemaService_CreateFullTextIndex_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndex_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexResponse
```

The SOAP body MUST contain a **CreateFullTextIndexResponse** element.

3.9.4.10.1.3 SchemaService_CreateFullTextIndex_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateFullTextIndex_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndex_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.10.2 Elements

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

3.9.4.10.2.1 CreateFullTextIndex

The **CreateFullTextIndex** element contains the input data for a **CreateFullTextIndex** operation.

```
<xsd:element name="CreateFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" type="xsd:string"/>
      <xsd:element minOccurs="0" name="description" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="lemmatizationEnabled" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="deleteDisallowed" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the full-text index field. This name MUST be unique.

description: The description of the full-text index field.

lemmatizationEnabled: The value MUST be **true** if stemming is to be enabled; otherwise, the value MUST be **false**.

deleteDisallowed: The value MUST be **true** if a delete operation is not allowed; otherwise, the value MUST be **false**.

3.9.4.10.2.2 CreateFullTextIndexResponse

The **CreateFullTextIndexResponse** element contains the output data from a **CreateFullTextIndex** operation. The response contains a **FullTextIndexDTO**.

```
<xsd:element name="CreateFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateFullTextIndexResult" nillable="true"
type="tns:FullTextIndexDTO" />
    </xsd:sequence>
```

```
        </xsd:complexType>
    </xsd:element>
```

CreateFullTextIndexResult: A **FullTextIndexDTO** that contains the elements of the created full-text index field.

3.9.4.10.3   Complex Types

None.

3.9.4.10.4   Simple Types

None.

3.9.4.10.5   Attributes

None.

3.9.4.10.6   Groups

None.

3.9.4.10.7   Attribute Groups

None.

3.9.4.11   CreateFullTextIndexMapping

The **CreateFullTextIndexMapping** operation includes a managed property in a full-text index field, causing the content of the managed property to become indexed. The operation requires reprocessing of the content for it to be included into the full-text index field. Reprocessing is done by re-feeding the content through the item processing service from the original content source (see [MS-FSO] section 2.1.1.4).

This operation MUST update the FieldProperties.xml, indexConfig.xml and fixml_mappings.xml files (see [MS-FSSCFG] section 2). If the managed property has the summary type set to dynamic, the protocol server MUST also update the fsearch.addon file (see [MS-FSSCFG] section 2.7).

```
    <wsdl:operation name="CreateFullTextIndexMapping">
      <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMapping"
message="tns:SchemaService_CreateFullTextIndexMapping_InputMessage"/>
      <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMappingResponse"
message="tns:SchemaService_CreateFullTextIndexMapping_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMappingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage"/>
    </wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateFullTextIndexMapping_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateFullTextIndexMapping_OutputMessage** response message.

3.9.4.11.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.11.1.1 SchemaService_CreateFullTextIndexMapping_InputMessage

The **SchemaService_CreateFullTextIndexMapping_InputMessage** request message initiates the operation to add a managed property to a full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMapping
```

The SOAP body MUST contain a **CreateFullTextIndexMapping** element.

3.9.4.11.1.2 SchemaService_CreateFullTextIndexMapping_OutputMessage

The **SchemaService_CreateFullTextIndexMapping_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndexMapping_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMappingResponse
```

The SOAP body MUST contain a **CreateFullTextIndexMappingResponse** element.

3.9.4.11.1.3 SchemaService_CreateFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndexMapping_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexMappingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.11.2 Elements

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

3.9.4.11.2.1 CreateFullTextIndexMapping

The **CreateFullTextIndexMapping** element contains the input data for a
CreateFullTextIndexMapping operation.

```
<xsd:element name="CreateFullTextIndexMapping">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="FullTextIndexId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="ImportanceLevel" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ManagedPropertyId: The identifier of the managed property.

FullTextIndexId: The identifier of the full-text index field.

ImportanceLevel: An indication of the importance level of the managed property in the full-text
index field. The value MUST be in the range from 1 through 7.

3.9.4.11.2.2 CreateFullTextIndexMappingResponse

The **CreateFullTextIndexMappingResponse** element contains the output data from a
CreateFullTextIndexMapping operation. The response contains a **FullTextIndexMappingDTO**.

```
<xsd:element name="CreateFullTextIndexMappingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateFullTextIndexMappingResult" nillable="true"
type="tns:FullTextIndexMappingDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateFullTextIndexMappingResult: A **FullTextIndexMappingDTO** containing the elements of
the full-text index field mapping that was created.

3.9.4.11.3 Complex Types

None.

3.9.4.11.4 Simple Types

None.

3.9.4.11.5 Attributes

None.

3.9.4.11.6 Groups

None.

3.9.4.11.7   Attribute Groups

None.

3.9.4.12   CreateFullTextIndexRankComponent

The **CreateFullTextIndexRankComponent** operation creates a full-text index field rank component in the given rank profile. The rank component applies to the given full-text index field. This rank component controls how each importance level in the full-text index field is weighted when calculating rank. This operation is asynchronous, and there is no operation to verify whether it has finished. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateFullTextIndexRankComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponent"
message="tns:SchemaService_CreateFullTextIndexRankComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponentResponse"
message="tns:SchemaService_CreateFullTextIndexRankComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateFullTextIndexRankComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateFullTextIndexRankComponent_OutputMessage** response message.

3.9.4.12.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.12.1.1   SchemaService_CreateFullTextIndexRankComponent_InputMessage

The **SchemaService_CreateFullTextIndexRankComponent_InputMessage** request message initiates the operation to create a full-text index field rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponent
```

The SOAP body MUST contain a **CreateFullTextIndexRankComponent** element.

3.9.4.12.1.2 SchemaService_CreateFullTextIndexRankComponent_OutputMessage

The **SchemaService_CreateFullTextIndexRankComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndexRankComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponentResponse
```

The SOAP body MUST contain a **CreateFullTextIndexRankComponentResponse** element.

3.9.4.12.1.3 SchemaService_CreateFullTextIndexRankComponent_AdminExceptionWCFFault_ FaultMessage

The **SchemaService_CreateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateFullTextIndexRankComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateFullTextIndexRankComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.12.2 Elements

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

3.9.4.12.2.1 CreateFullTextIndexRankComponent

The **CreateFullTextIndexRankComponent** element contains the input data for a **CreateFullTextIndexRankComponent** operation.

```
<xsd:element name="CreateFullTextIndexRankComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="FullTextIndexReference" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile. This value MUST be the identifier of an existing rank profile.

FullTextIndexReference: A reference to the full-text index field. This value MUST be a reference to an existing full-text index field.

3.9.4.12.2.2 CreateFullTextIndexRankComponentResponse

The **CreateFullTextIndexRankComponentResponse** element contains the output data from a **CreateFullTextIndexRankComponent** operation. The response contains a **FullTextIndexRankComponentDTO**.

```
<xsd:element name="CreateFullTextIndexRankComponentResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateFullTextIndexRankComponentResult"
nillable="true" type="tns:FullTextIndexRankComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateFullTextIndexRankComponentResult: A **FullTextIndexRankComponentDTO** containing the elements of the full-text index field rank component that was created.

3.9.4.12.3 Complex Types

None.

3.9.4.12.4 Simple Types

None.

3.9.4.12.5 Attributes

None.

3.9.4.12.6 Groups

None.

3.9.4.12.7 Attribute Groups

None.

3.9.4.13 CreateManagedProperty

The **CreateManagedProperty** operation creates a managed property. This operation is asynchronous. This operation MUST update the fixml_mappings.xml, index.cf, indexConfig.xml, FieldProperties.xml, summary.cf, summaryclasses.xml, resultspace.xml (see [MS-FSSCFG] section 2) and all result.templ files (see [MS-FSQRCFG] section 2.7). If sorting is enabled on the managed property, then the fieldspec.xml file MUST also be updated (see [MS-FSSCFG] section 3.2). If the summary type is set to dynamic, then fsearch.addon and summary.map MUST also be updated (see [MS-FSSCFG] section 2). If the new managed property is a integer, float, decimal or datetime, then the maptransform.xml file MUST also be updated (see [MS-FSSCFG] section 2.2).

```
<wsdl:operation name="CreateManagedProperty">
```

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```
   <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedProperty" message="tns:SchemaService_CreateManagedProperty_InputMessage"/>
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyResponse"
message="tns:SchemaService_CreateManagedProperty_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateManagedProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateManagedProperty_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_CreateManagedProperty_OutputMessage response message.

3.9.4.13.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.13.1.1   SchemaService_CreateManagedProperty_InputMessage

The **SchemaService_CreateManagedProperty_InputMessage** request message initiates the
operation to create a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedProperty
```

The SOAP body MUST contain a **CreateManagedProperty** element.

3.9.4.13.1.2   SchemaService_CreateManagedProperty_OutputMessage

The **SchemaService_CreateManagedProperty_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_CreateManagedProperty_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyResponse
```

The SOAP body MUST contain a **CreateManagedPropertyResponse** element.

3.9.4.13.1.3
SchemaService_CreateManagedProperty_AdminExceptionWCFFault_FaultMessag
e

The **SchemaService_CreateManagedProperty_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
SchemaService_CreateManagedProperty_InputMessage message. The schema server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.13.2   Elements

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

3.9.4.13.2.1   CreateManagedProperty

The **CreateManagedProperty** element contains the input data for a **CreateManagedProperty** operation.

```
<xsd:element name="CreateManagedProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="type" type="xsd:int"/>
      <xsd:element minOccurs="0" name="queryable" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="sortableType" type="xsd:int"/>
      <xsd:element minOccurs="0" name="enableLemmatization" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="SummaryType" type="xsd:int"/>
      <xsd:element minOccurs="0" name="mappingDisallowed" type="xsd:boolean"/>
      <xsd:element minOccurs="0" name="deleteDisallowed" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Name: The name of the managed property. This value MUST not be **null**.

Description: A description of the managed property.

type: Determines the type of the managed property. The table of type values in section 2.2.4.28 specifies valid values for this element.

queryable: The value MUST be **true** if the managed property can be queried; otherwise, the value MUST be **false**.

sortableType: Determines how the managed property is sorted. The table of **sortableType** values in section 2.2.4.28 specifies valid values for this element.

enableLemmatization: The value MUST be **true** if stemming is enabled; otherwise, the value MUST be **false**.

SummaryType: The **SummaryType** of a managed property specifies whether to generate summaries for the selected managed property. A summary can be static or dynamic. The table of **SummaryType** values in section 2.2.4.28 specifies the valid values for this element.

mappingDisallowed: The value MUST be **true** if the managed property is not mapped; otherwise, the value MUST be **false**.

deleteDisallowed: The value MUST be **true** if the managed property can be deleted; otherwise, the value MUST be **false**.

3.9.4.13.2.2   CreateManagedPropertyResponse

The **CreateManagedPropertyResponse** element contains the output data from a **CreateManagedProperty** operation. The response contains a **ManagedPropertyDTO**.

```
<xsd:element name="CreateManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateManagedPropertyResult" nillable="true"
type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateManagedPropertyResult: A **ManagedPropertyDTO** containing the elements of the managed property that was created.

3.9.4.13.3   Complex Types

None.

3.9.4.13.4   Simple Types

None.

3.9.4.13.5   Attributes

None.

3.9.4.13.6   Groups

None.

3.9.4.13.7   Attribute Groups

None.

3.9.4.14   CreateManagedPropertyBoostComponent

The **CreateManagedPropertyBoostComponent** operation creates a keyword rank component for a managed property. The keyword rank component is associated with a rank profile, so that a managed property can have different keyword rank components based on which rank profile is in use. This operation is asynchronous. This operation MUST update the ManagedPropertyBoosts.xml file (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateManagedPropertyBoostComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyBoostComponent"
message="tns:SchemaService_CreateManagedPropertyBoostComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
```

```
CreateManagedPropertyBoostComponentResponse"
message="tns:SchemaService_CreateManagedPropertyBoostComponent_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyBoostComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
ssage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_CreateManagedPropertyBoostComponent_InputMessage request message.
When the operation finishes successfully, the schema server MUST respond with a
SchemaService_CreateManagedPropertyBoostComponent_OutputMessage response
message.

3.9.4.14.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.14.1.1 SchemaService_CreateManagedPropertyBoostComponent_InputMessage

The **SchemaService_CreateManagedPropertyBoostComponent_InputMessage** request
message initiates the operation to create a keyword rank component for a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyBoostComponent
```

The SOAP body MUST contain a **CreateManagedPropertyBoostComponent** element.

3.9.4.14.1.2 SchemaService_CreateManagedPropertyBoostComponent_OutputMessage

The **SchemaService_CreateManagedPropertyBoostComponent_OutputMessage** response
message is sent in reply to the request that is initiated by the
SchemaService_CreateManagedPropertyBoostComponent_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyBoostComponentResponse
```

The SOAP body MUST contain a **CreateManagedPropertyBoostComponentResponse** element.

3.9.4.14.1.3 SchemaService_CreateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage

The
SchemaService_CreateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage response message is sent in reply to the request that is initiated by the

SchemaService_CreateManagedPropertyBoostComponent_InputMessage message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyBoostComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.14.2   Elements

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

3.9.4.14.2.1   CreateManagedPropertyBoostComponent

The **CreateManagedPropertyBoostComponent** element contains the input data for a **CreateManagedPropertyBoostComponent** operation.

```
<xsd:element name="CreateManagedPropertyBoostComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
      <xsd:element minOccurs="0" name="ManagedPropertyName" nillable="true" type="xsd:string"
/>
      <xsd:element minOccurs="0" name="BoostValue" nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile to which the managed property belongs.

ManagedPropertyName: The name of the managed property.

BoostValue: One or more concatenated boost value(s) of the keyword rank component. A boost value MUST be a string formatted as "*<boost term>*, *<boost amount>*". For example, "Microsoft, 200". Multiple boost values can be given at once. For example, "Microsoft, 200, Word, 3000".

3.9.4.14.2.2   CreateManagedPropertyBoostComponentResponse

The **CreateManagedPropertyBoostComponentResponse** element contains the output data from a **CreateManagedPropertyBoostComponent** operation. The response contains a **ManagedPropertyBoostComponentDTO**.

```
<xsd:element name="CreateManagedPropertyBoostComponentResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateManagedPropertyBoostComponentResult"
nillable="true" type="tns:ManagedPropertyBoostComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateManagedPropertyBoostComponentResult: A **ManagedPropertyBoostComponentDTO** containing the elements of the keyword rank component that was created.

3.9.4.14.3 Complex Types

None.

3.9.4.14.4 Simple Types

None.

3.9.4.14.5 Attributes

None.

3.9.4.14.6 Groups

None.

3.9.4.14.7 Attribute Groups

None.

3.9.4.15 CreateManagedPropertyMinimal

The **CreateManagedPropertyMinimal** operation creates a minimal managed property. This operation is asynchronous. This operation MUST update the fixml_mappings.xml, index.cf, indexConfig.xml, FieldProperties.xml, summary.cf, summaryclasses.xml, resultspace.xml (see [MS-FSSCFG] section 2) and all result.templ files (see [MS-FSQRCFG] section 2.7). If the new managed property is a integer, float, decimal or datetime, then the maptransform.xml file MUST also be updated (see [MS-FSSCFG] section 2.2).

```
<wsdl:operation name="CreateManagedPropertyMinimal">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimal"
message="tns:SchemaService_CreateManagedPropertyMinimal_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimalResponse"
message="tns:SchemaService_CreateManagedPropertyMinimal_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimalAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateManagedPropertyMinimal_AdminExceptionWCFFault_FaultMessage"/
>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateManagedPropertyMinimal_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateManagedPropertyMinimal_OutputMessage** response message.

3.9.4.15.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.15.1.1   SchemaService_CreateManagedPropertyMinimal_InputMessage

The **SchemaService_CreateManagedPropertyMinimal_InputMessage** request message initiates the creation of a minimal managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimal
```

The SOAP body MUST contain a **CreateManagedPropertyMinimal** element.

3.9.4.15.1.2   SchemaService_CreateManagedPropertyMinimal_OutputMessage

The **SchemaService_CreateManagedPropertyMinimal_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateManagedPropertyMinimal_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimalResponse
```

The SOAP body MUST contain a **CreateManagedPropertyMinimalResponse** element.

3.9.4.15.1.3
SchemaService_CreateManagedPropertyMinimal_AdminExceptionWCFFault_Fault
Message

The
SchemaService_CreateManagedPropertyMinimal_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_CreateManagedPropertyMinimal_InputMessage message. The schema
server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateManagedPropertyMinimalAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.15.2   Elements

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

3.9.4.15.2.1   CreateManagedPropertyMinimal

The **CreateManagedPropertyMinimal** element contains the input data for a
CreateManagedPropertyMinimal operation.

```
<xsd:element name="CreateManagedPropertyMinimal">
  <xsd:complexType>
```

```
      <xsd:sequence>
        <xsd:element minOccurs="0" name="Name" type="xsd:string"/>
        <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string"/>
        <xsd:element minOccurs="0" name="type" type="xsd:int"/>
      </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

Name: The name of the rank profile to which the managed property belongs.

Description: The name of the managed property.

type: The type of managed property to create. The managed property types are defined in 2.2.4.29.

3.9.4.15.2.2   CreateManagedPropertyMinimalResponse

The **CreateManagedPropertyMinimalResponse** element contains the output data from a **CreateManagedPropertyMinimal** operation. The response contains a **ManagedPropertyDTO**.

```
<xsd:element name="CreateManagedPropertyMinimalResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateManagedPropertyMinimalResult" nillable="true"
type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateManagedPropertyMinimalResult: A **ManagedPropertyDTO** containing the elements of the minimal managed property that was created.

3.9.4.15.3   Complex Types

None.

3.9.4.15.4   Simple Types

None.

3.9.4.15.5   Attributes

None.

3.9.4.15.6   Groups

None.

3.9.4.15.7   Attribute Groups

None.

Release: July 16, 2012

3.9.4.16 CreateQualityComponent

The **CreateQualityComponent** operation creates a quality rank component. A quality rank component is a list of which internal properties are used to calculate the quality rank. This operation MUST add a new quality rank component to the list. This operation is asynchronous, and there is no operation to verify whether it has finished. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateQualityComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateQualityComponent" message="tns:SchemaService_CreateQualityComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateQualityComponentResponse"
message="tns:SchemaService_CreateQualityComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateQualityComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateQualityComponent_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateQualityComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateQualityComponent_OutputMessage** response message.

3.9.4.16.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.16.1.1 SchemaService_CreateQualityComponent_InputMessage

The **SchemaService_CreateQualityComponent_InputMessage** request message initiates the operation to create the quality rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateQualityComponent
```

The SOAP body MUST contain a **CreateQualityComponent** element.

3.9.4.16.1.2 SchemaService_CreateQualityComponent_OutputMessage

The **SchemaService_CreateQualityComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateQualityComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateQualityComponentResponse
```

The SOAP body MUST contain a **CreateQualityComponentResponse** element.

3.9.4.16.1.3 SchemaService_CreateQualityComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateQualityComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateQualityComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateQualityCompone
ntAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.16.2 Elements

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

3.9.4.16.2.1 CreateQualityComponent

The **CreateQualityComponent** element contains the input data for a **CreateQualityComponent** operation.

```
<xsd:element name="CreateQualityComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="ManagedPropertyName" type="xsd:string"/>
      <xsd:element minOccurs="0" name="Weight" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile to which the quality rank component belongs.

ManagedPropertyName: The name of the managed property.

Weight: The weight of the quality rank component.

3.9.4.16.2.2 CreateQualityComponentResponse

The **CreateQualityComponentResponse** element contains the output data from a **CreateQualityComponent** operation. The response contains a **QualityComponentDTO**.

```
<xsd:element name="CreateQualityComponentResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateQualityComponentResult" nillable="true"
type="tns:QualityComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateQualityComponentResult: A **QualityComponentDTO** containing the elements of the minimal managed property that was created.

3.9.4.16.3 Complex Types

None.

3.9.4.16.4 Simple Types

None.

3.9.4.16.5 Attributes

None.

3.9.4.16.6 Groups

None.

3.9.4.16.7 Attribute Groups

None.

3.9.4.17 CreateRankProfile

The **CreateRankProfile** operation creates a new rank profile that is a clone of an existing rank profile with the new name specified in the request message and a new identifier. This operation is asynchronous. This operation MUST update the rank.cf, indexConfig.xml, search_preload, fieldspec.xml and rankspace.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateRankProfile">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfile" message="tns:SchemaService_CreateRankProfile_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileResponse" message="tns:SchemaService_CreateRankProfile_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateRankProfile_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_CreateRankProfile_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_CreateRankProfile_OutputMessage** message.

3.9.4.17.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.17.1.1 SchemaService_CreateRankProfile_InputMessage

The **SchemaService_CreateRankProfile_InputMessage** request message initiates the operation to create a copy of an existing rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateRankProfile
```

The SOAP body MUST contain a **CreateRankProfile** element.

3.9.4.17.1.2 SchemaService_CreateRankProfile_OutputMessage

The **SchemaService_CreateRankProfile_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateRankProfileRes
ponse
```

The SOAP body MUST contain a **CreateRankProfileResponse** element.

3.9.4.17.1.3 SchemaService_CreateRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_CreateRankProfile_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_CreateRankProfile_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateRankProfile
AdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.17.2 Elements

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

3.9.4.17.2.1 CreateRankProfile

The **CreateRankProfile** element contains the input data for a **CreateRankProfile** operation.

```
<xsd:element name="CreateRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
<xsd:element minOccurs="0" name="dto" nillable="true" type="tns:RankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Name: The name of the rank profile to create. This element MUST be present and it MUST not be **null**.

dto: The elements of the rank profile to copy. This element MUST be present, it MUST NOT be **null** and it MUST represent an existing rank profile retrieved through a call to **GetRankProfile** (see section 3.9.4.52).

3.9.4.17.2.2 CreateRankProfileResponse

The **CreateRankProfileResponse** element contains the output data from a **CreateRankProfile** operation. The response contains a **RankProfileDTO**.

```
<xsd:element name="CreateRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateRankProfileResult" nillable="true"
type="tns:RankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateRankProfileResult: The elements of the created rank profile.

3.9.4.17.3 Complex Types

None.

3.9.4.17.4 Simple Types

None.

3.9.4.17.5 Attributes

None.

3.9.4.17.6 Groups

None.

3.9.4.17.7 Attribute Groups

None.

3.9.4.18 CreateRankProfileWithDefaults

The **CreateRankProfileWithDefaults** operation creates a rank profile with default values. This operation is asynchronous. This operation MUST update the rank.cf, indexConfig.xml, fieldspec.xml and rankspace.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="CreateRankProfileWithDefaults">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaults"
message="tns:SchemaService_CreateRankProfileWithDefaults_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaultsResponse"
message="tns:SchemaService_CreateRankProfileWithDefaults_OutputMessage"/>
```

```
      <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaultsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_CreateRankProfileWithDefaults_AdminExceptionWCFFault_FaultMessage"
/>
   </wsdl:operation>
```

The protocol client MUST send a
SchemaService_CreateRankProfileWithDefaults_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_CreateRankProfileWithDefaults_OutputMessage response message.

3.9.4.18.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.18.1.1 SchemaService_CreateRankProfileWithDefaults_InputMessage

The **SchemaService_CreateRankProfileWithDefaults_InputMessage** request message initiates
the operation to create a default rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaults
```

The SOAP body MUST contain a **CreateRankProfileWithDefaults** element.

3.9.4.18.1.2 SchemaService_CreateRankProfileWithDefaults_OutputMessage

The **SchemaService_CreateRankProfileWithDefaults_OutputMessage** response message is
sent in reply to the request that is initiated by the
SchemaService_CreateRankProfileWithDefaults_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaultsResponse
```

The SOAP body MUST contain a **CreateRankProfileWithDefaultsResponse** element.

3.9.4.18.1.3
SchemaService_CreateRankProfileWithDefaults_AdminExceptionWCFFault_Fault
Message

The
SchemaService_CreateRankProfileWithDefaults_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_CreateRankProfileWithDefaults_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
CreateRankProfileWithDefaultsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.18.2   Elements

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

3.9.4.18.2.1   CreateRankProfileWithDefaults

The **CreateRankProfileWithDefaults** element contains the input data for a
CreateRankProfileWithDefaults operation.

```
<xsd:element name="CreateRankProfileWithDefaults">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="1" name="Name" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Name: The name of the rank profile to create.

3.9.4.18.2.2   CreateRankProfileWithDefaultsResponse

The **CreateRankProfileWithDefaultsResponse** element contains the output data from a
CreateRankProfileWithDefaults operation. The response contains a **RankProfileDTO**.

```
<xsd:element name="CreateRankProfileWithDefaultsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateRankProfileWithDefaultsResult" nillable="true"
type="tns:RankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CreateRankProfileWithDefaultsResult: The elements of the created rank profile with a set of
default values.

3.9.4.18.3   Complex Types

None.

3.9.4.18.4   Simple Types

None.

3.9.4.18.5   Attributes

None.

3.9.4.18.6   Groups

None.

3.9.4.18.7   Attribute Groups

None.

3.9.4.19   DeleteCategory

The **DeleteCategory** operation deletes the crawled property category, including its crawled properties. This operation MUST update the PropertyCategories.xml file (see [MS-FSPSCFG] section 2.3). If any crawled properties are associated with this crawled property category, then this operation MUST also update the ManagedProperties.xml configuration file (see [MS-FSPSCFG] section 2.2).

```
<wsdl:operation name="DeleteCategory">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteCategory" message="tns:SchemaService_DeleteCategory_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/
SchemaService/DeleteCategoryResponse"
message="tns:SchemaService_DeleteCategory_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteCategoryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteCategory_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteCategory_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteCategory_OutputMessage** response message.

3.9.4.19.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.19.1.1   SchemaService_DeleteCategory_InputMessage

The **SchemaService_DeleteCategory_InputMessage** request message initiates the operation that deletes the crawled property category and its crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteCategory
```

The SOAP body MUST contain a **DeleteCategory** element.

3.9.4.19.1.2   SchemaService_DeleteCategory_OutputMessage

The **SchemaService_DeleteCategory_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteCategory_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteCategoryRespon
se
```

The SOAP body MUST contain a **DeleteCategoryResponse** element.

3.9.4.19.1.3 SchemaService_DeleteCategory_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteCategory_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteCategory_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteCategoryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.19.2 Elements

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

3.9.4.19.2.1 DeleteCategory

The **DeleteCategory** element contains the input data for a **DeleteCategory** operation.

```
<xsd:element name="DeleteCategory">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CategoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category to delete.

3.9.4.19.2.2 DeleteCategoryResponse

The **DeleteCategoryResponse** element contains the result data for a **DeleteCategory** operation.

```
<xsd:element name="DeleteCategoryResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.19.3   Complex Types

None.

3.9.4.19.4   Simple Types

None.

3.9.4.19.5   Attributes

None.

3.9.4.19.6   Groups

None.

3.9.4.19.7   Attribute Groups

None.

3.9.4.20   DeleteFullTextIndex

The **DeleteFullTextIndex** operation deletes the full-text index field asynchronously. The protocol server does not offer any operations to discover when this operation is finished. After the operation has finished, the protocol server will still have the content of the **full-text index catalog** stored (but it is disabled), and a full re-feed and re-indexing of the content source is necessary to free up all resources used by a full-text index field. See [MS-FSO] section 2.1.1.4 for details on the item processing service. This operation MUST update the rank.cf, index.cf, indexConfig.xml and FieldProperties.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="DeleteFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndex" message="tns:SchemaService_DeleteFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/
SchemaService/DeleteFullTextIndexResponse"
message="tns:SchemaService_DeleteFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteFullTextIndex_InputMessage** request message and the schema server MUST respond with a **SchemaService_DeleteFullTextIndex_OutputMessage** response message when the operation finishes successfully.

3.9.4.20.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.20.1.1   SchemaService_DeleteFullTextIndex_InputMessage

The **SchemaService_DeleteFullTextIndex_InputMessage** request message initiates the operation to delete the full-text index field asynchronously.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteFullTextIndex
```

The SOAP body MUST contain a **DeleteFullTextIndex** element.

3.9.4.20.1.2   SchemaService_DeleteFullTextIndex_OutputMessage

The **SchemaService_DeleteFullTextIndex_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteFullTextIndex_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteFullTextIndexR
esponse
```

The SOAP body MUST contain a **DeleteFullTextIndexResponse** element.

3.9.4.20.1.3
SchemaService_DeleteFullTextIndex_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteFullTextIndex_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteFullTextIndex_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.20.2   Elements

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

3.9.4.20.2.1   DeleteFullTextIndex

The **DeleteFullTextIndex** element contains the input data for a **DeleteFullTextIndex** operation.

```
<xsd:element name="DeleteFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="FullTextIndexName" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
    </xsd:element>
```

FullTextIndexName: The name of the full-text index field to delete.

3.9.4.20.2.2 DeleteFullTextIndexResponse

The **DeleteFullTextIndexResponse** element contains the result data for a **DeleteFullTextIndex** operation.

```
<xsd:element name="DeleteFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.20.3 Complex Types

None.

3.9.4.20.4 Simple Types

None.

3.9.4.20.5 Attributes

None.

3.9.4.20.6 Groups

None.

3.9.4.20.7 Attribute Groups

None.

3.9.4.21 DeleteFullTextIndexMapping

The **DeleteFullTextIndexMapping** operation removes a managed property from a full-text index field. Deleting a mapping does not have any effect on the existing content in the search index, and the operation requires re-feeding and re-indexing of the content source to complete the change. This operation MUST update the FieldProperties.xml, indexConfig.xml and fixml_mappings.xml files (see [MS-FSSCFG] section 2). If the managed property has the summary type set to dynamic, the protocol server MUST also update the fsearch.addon file (see [MS-FSSCFG] section 2.7). This operation is asynchronous.

```
<wsdl:operation name="DeleteFullTextIndexMapping">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMapping"
  message="tns:SchemaService_DeleteFullTextIndexMapping_InputMessage"/>
```

```
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMappingResponse"
message="tns:SchemaService_DeleteFullTextIndexMapping_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMappingAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteFullTextIndexMapping_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_DeleteFullTextIndexMapping_OutputMessage response message.

3.9.4.21.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.21.1.1 SchemaService_DeleteFullTextIndexMapping_InputMessage

The **SchemaService_DeleteFullTextIndexMapping_InputMessage** request message initiates
the operation to remove a managed property from a full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMapping
```

The SOAP body MUST contain a **DeleteFullTextIndexMapping** element.

3.9.4.21.1.2 SchemaService_DeleteFullTextIndexMapping_OutputMessage

The **SchemaService_DeleteFullTextIndexMapping_OutputMessage** response message is sent
in reply to the request that is initiated by the
SchemaService_DeleteFullTextIndexMapping_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMappingResponse
```

The SOAP body MUST contain a **DeleteFullTextIndexMappingResponse** element.

3.9.4.21.1.3
SchemaService_DeleteFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage

The
SchemaService_DeleteFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_DeleteFullTextIndexMapping_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexMappingAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.21.2 Elements

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

3.9.4.21.2.1 DeleteFullTextIndexMapping

The **DeleteFullTextIndexMapping** element contains the input data for a
DeleteFullTextIndexMapping operation.

```
<xsd:element name="DeleteFullTextIndexMapping">
  <xsd:complexType>
    <xsd:sequence>
    <xsd:element minOccurs="0" name="dto" nillable="true"
type="tns:FullTextIndexMappingDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

dto: A **FullTextIndexMappingDTO** containing the elements that specify which managed property
to remove from a full-text index field.

3.9.4.21.2.2 DeleteFullTextIndexMappingResponse

The **DeleteFullTextIndexMappingResponse** element contains the output data from a
DeleteFullTextIndexMapping operation.

```
<xsd:element name="DeleteFullTextIndexMappingResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.21.3 Complex Types

None.

3.9.4.21.4 Simple Types

None.

3.9.4.21.5 Attributes

None.

3.9.4.21.6 Groups

None.

3.9.4.21.7 Attribute Groups

None.

3.9.4.22 DeleteFullTextIndexRankComponent

The **DeleteFullTextIndexRankComponent** operation deletes a full-text index field rank component. This operation is asynchronous, and there is no operation to verify whether it has finished. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="DeleteFullTextIndexRankComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponent"
message="tns:SchemaService_DeleteFullTextIndexRankComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponentResponse"
message="tns:SchemaService_DeleteFullTextIndexRankComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteFullTextIndexRankComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteFullTextIndexRankComponent_OutputMessage** response message.

3.9.4.22.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.22.1.1 SchemaService_DeleteFullTextIndexRankComponent_InputMessage

The **SchemaService_DeleteFullTextIndexRankComponent_InputMessage** request message initiates the operation to delete a full-text index field rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponent
```

The SOAP body MUST contain a **DeleteFullTextIndexRankComponent** element.

3.9.4.22.1.2 SchemaService_DeleteFullTextIndexRankComponent_OutputMessage

The **SchemaService_DeleteFullTextIndexRankComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteFullTextIndexRankComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponentResponse
```

The SOAP body MUST contain a **DeleteFullTextIndexRankComponentResponse** element.

3.9.4.22.1.3 SchemaService_DeleteFullTextIndexRankComponent_AdminExceptionWCFFault_ FaultMessage

The **SchemaService_DeleteFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMes sage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteFullTextIndexRankComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteFullTextIndexRankComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.22.2 Elements

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

3.9.4.22.2.1 DeleteFullTextIndexRankComponent

The **DeleteFullTextIndexRankComponent** element contains the input data for a **DeleteFullTextIndexRankComponent** operation. The input data includes a **FullTextIndexRankComponentDTO.**

```
<xsd:element name="DeleteFullTextIndexRankComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="dto" nillable="true"
type="tns:FullTextIndexRankComponentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile.

dto: A **FullTextIndexRankComponentDTO** containing the elements of the full-text index field rank component to delete.

3.9.4.22.2.2   DeleteFullTextIndexRankComponentResponse

The **DeleteFullTextIndexRankComponentResponse** element contains the output data from a **DeleteFullTextIndexRankComponent** operation.

```xsd
<xsd:element name="DeleteFullTextIndexRankComponentResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.22.3   Complex Types

None.

3.9.4.22.4   Simple Types

None.

3.9.4.22.5   Attributes

None.

3.9.4.22.6   Groups

None.

3.9.4.22.7   Attribute Groups

None.

3.9.4.23   DeleteManagedProperty

The **DeleteManagedProperty** operation deletes a managed property. This operation is asynchronous. This operation MUST update the fixml_mappings.xml, index.cf, indexConfig.xml, FieldProperties.xml, summary.cf, summaryclasses.xml, resultspace.xml (see [MS-FSSCFG] section 2) and all result.templ files (see [MS-FSQRCFG] section 2.7). If sorting was enabled on the managed property being deleted, then the fieldspec.xml file MUST also be updated (see [MS-FSSCFG] section 3.2). If the summary type was set to dynamic, then fsearch.addon and summary.map MUST also be updated (see [MS-FSSCFG] section 2). If the managed property was a integer, float, decimal or datetime, then the maptransform.xml file MUST also be updated (see [MS-FSSCFG] section 2.2).

```wsdl
<wsdl:operation name="DeleteManagedProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedProperty " message="tns:SchemaService_DeleteManagedProperty_InputMessage"/>
  wsdl:output
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/
SchemaService/DeleteManagedPropertyResponse"
message="tns:SchemaService_DeleteManagedProperty_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteManagedProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteManagedProperty_InputMessage**
request message. On successful completion, the schema server MUST respond with a
SchemaService_DeleteManagedProperty_OutputMessage response message.

3.9.4.23.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.23.1.1 SchemaService_DeleteManagedProperty_InputMessage

The **SchemaService_DeleteManagedProperty_InputMessage** request message initiates the
operation to delete a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteManagedPropert
y
```

The SOAP body MUST contain a **DeleteManagedProperty** element.

3.9.4.23.1.2 SchemaService_DeleteManagedProperty_OutputMessage

The **SchemaService_DeleteManagedProperty_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_DeleteManagedProperty_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteManagedPropert
yResponse
```

The SOAP body MUST contain a **DeleteManagedPropertyResponse** element.

3.9.4.23.1.3 SchemaService_DeleteManagedProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteManagedProperty_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
SchemaService_DeleteManagedProperty_InputMessage message. The schema server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.23.2 Elements

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

3.9.4.23.2.1 DeleteManagedProperty

The **DeleteManagedProperty** element contains the input data for a **DeleteManagedProperty** operation.

```
<xsd:element name="DeleteManagedProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the managed property to delete.

3.9.4.23.2.2 DeleteManagedPropertyResponse

The **DeleteManagedPropertyResponse** element contains the result data for a **DeleteManagedProperty** operation.

```
<xsd:element name="DeleteManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.23.3 Complex Types

None.

3.9.4.23.4 Simple Types

None.

3.9.4.23.5 Attributes

None.

3.9.4.23.6 Groups

None.

3.9.4.23.7   Attribute Groups

None.

3.9.4.24   DeleteManagedPropertyBoostComponent

The **DeleteManagedPropertyBoostComponent** operation deletes a keyword rank component of a rank profile. This operation is asynchronous. This operation MUST update the ManagedPropertyBoosts.xml file (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="DeleteManagedPropertyBoostComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponent"
message="tns:SchemaService_DeleteManagedPropertyBoostComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponentResponse"
message="tns:SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
ssage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteManagedPropertyBoostComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage** response message.

3.9.4.24.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.24.1.1   SchemaService_DeleteManagedPropertyBoostComponent_InputMessage

The **SchemaService_DeleteManagedPropertyBoostComponent_InputMessage** request message initiates the operation to delete the keyword rank component of a rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponent
```

The SOAP body MUST contain a **DeleteManagedPropertyBoostComponent** element.

3.9.4.24.1.2   SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage

The **SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_**D**eleteManagedPropertyBoostComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponentResponse
```

The SOAP body MUST contain a **DeleteManagedPropertyBoostComponentResponse** element.

3.9.4.24.1.3 SchemaService_DeleteManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteManagedPropertyBoostComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteManagedPropertyBoostComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.24.2 Elements

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

3.9.4.24.2.1 DeleteManagedPropertyBoostComponent

The **DeleteManagedPropertyBoostComponent** element contains the input data for a **DeleteManagedPropertyBoostComponent** operation.

```
<xsd:element name="DeleteManagedPropertyBoostComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="dto" nillable="true"
type="tns:ManagedPropertyBoostComponentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile.

dto: A **ManagedPropertyBoostComponentDTO** that contains the elements of the keyword rank component to delete.

3.9.4.24.2.2 DeleteManagedPropertyBoostComponentResponse

The **DeleteManagedPropertyBoostComponentResponse** element is the output data from a **DeleteManagedPropertyBoostComponent** operation.

```
<xsd:element name="DeleteManagedPropertyBoostComponentResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.24.3   Complex Types

None.

3.9.4.24.4   Simple Types

None.

3.9.4.24.5   Attributes

None.

3.9.4.24.6   Groups

None.

3.9.4.24.7   Attribute Groups

None.

3.9.4.25   DeleteQualityComponent

The **DeleteQualityComponent** operation deletes the quality rank component of a rank profile. This operation is asynchronous, and there is no operation to verify whether it has finished. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="DeleteQualityComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponent" message="tns:SchemaService_DeleteQualityComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponentResponse"
message="tns:SchemaService_DeleteQualityComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteQualityComponent_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteQualityComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteQualityComponent_OutputMessage** response message.

3.9.4.25.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.25.1.1 SchemaService_DeleteQualityComponent_InputMessage

The **SchemaService_DeleteQualityComponent_InputMessage** request message initiates the operation to delete the quality rank component of a rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponent
```

The SOAP body MUST contain a **DeleteQualityComponent** element.

3.9.4.25.1.2 SchemaService_DeleteQualityComponent_OutputMessage

The **SchemaService_DeleteQualityComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteQualityComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponentResponse
```

The SOAP body MUST contain a **DeleteQualityComponentResponse** element.

3.9.4.25.1.3 SchemaService_DeleteQualityComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteQualityComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteQualityComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteQualityComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.25.2 Elements

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

3.9.4.25.2.1 DeleteQualityComponent

The **DeleteQualityComponent** element contains the input data for a **DeleteQualityComponent** operation.

```
<xsd:element name="DeleteQualityComponent">
  <xsd:complexType>
    <xsd:sequence>
```

```
         <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
         <xsd:element minOccurs="0" name="dto" nillable="true" type="tns:QualityComponentDTO"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile.

dto: A **QualityComponentDTO** that contains the elements of the quality rank component to delete.

3.9.4.25.2.2   DeleteQualityComponentResponse

The **DeleteQualityComponentResponse** element contains the output data from a **DeleteQualityComponent** operation.

```
<xsd:element name="DeleteQualityComponentResponse">
   <xsd:complexType>
      <xsd:sequence/>
   </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.25.3   Complex Types

None.

3.9.4.25.4   Simple Types

None.

3.9.4.25.5   Attributes

None.

3.9.4.25.6   Groups

None.

3.9.4.25.7   Attribute Groups

None.

3.9.4.26   DeleteRankProfile

The **DeleteRankProfile** operation deletes a rank profile. This operation is asynchronous. This operation MUST update the rank.cf, indexConfig.xml, search_preload, fieldspec.xml and rankspace.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="DeleteRankProfile">
   <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteRankProfile" message="tns:SchemaService_DeleteRankProfile_InputMessage"/>
```

```
      <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteRankProfileResponse" message="tns:SchemaService_DeleteRankProfile_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteRankProfile_AdminExceptionWCFFault_FaultMessage"/>
  </wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteRankProfile_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteRankProfile_OutputMessage** response message.

3.9.4.26.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.26.1.1 SchemaService_DeleteRankProfile_InputMessage

The **SchemaService_DeleteRankProfile_InputMessage** request message initiates the operation to delete a rank profile.

The SOAP action value of the message MUST be as follows.

```
   http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteRankProfile
```

The SOAP body MUST contain a **DeleteRankProfile** element.

3.9.4.26.1.2 SchemaService_DeleteRankProfile_OutputMessage

The **SchemaService_DeleteRankProfile_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
   http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
   DeleteRankProfileResponse
```

The SOAP body MUST contain a **DeleteRankProfileResponse** element.

3.9.4.26.1.3
SchemaService_DeleteRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteRankProfile_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteRankProfile_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
   http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
   DeleteRankProfileAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.26.2   Elements

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

3.9.4.26.2.1   DeleteRankProfile

The **DeleteRankProfile** element contains the input data for a **DeleteRankProfile** operation.

```
<xsd:element name="DeleteRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="dto" nillable="true" type="tns:RankProfileDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

dto: A **RankProfileDTO** that contains the elements of the rank profile to delete.

3.9.4.26.2.2   DeleteRankProfileResponse

The **DeleteRankProfileResponse** element contains the output data from a **DeleteRankProfile** operation.

```
<xsd:element name="DeleteRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.26.3   Complex Types

None.

3.9.4.26.4   Simple Types

None.

3.9.4.26.5   Attributes

None.

3.9.4.26.6   Groups

None.

3.9.4.26.7   Attribute Groups

None.

3.9.4.27 DeleteUnmappedProperties

The **DeleteUnmappedProperties** operation deletes all crawled properties with no mappings to managed properties. If the crawled property's IsMappedToContents value has a different value than the **MapToContents** value of the crawled property category they are associated with, thePropertyCategories.xml (see [MS-FSPSCFG] section 2.3) MUST also be regenerated. If this is not the case, then only the internal protocol server state MUST be updated.

```
<wsdl:operation name="DeleteUnmappedProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteUnmappedProperties" message="tns:SchemaService_DeleteUnmappedProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/
SchemaService/DeleteCategoryResponse"
message="tns:SchemaService_DeleteCategory_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteUnmappedPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_DeleteUnmappedProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_DeleteUnmappedProperties_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_DeleteUnmappedProperties_OutputMessage** response message.

3.9.4.27.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.27.1.1 SchemaService_DeleteUnmappedProperties_InputMessage

The **SchemaService_DeleteUnmappedProperties_InputMessage** request message initiates the operation to delete all crawled properties with no mappings to managed properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteUnmappedProper
ties
```

The SOAP body MUST contain a **DeleteUnmappedProperties** element.

3.9.4.27.1.2 SchemaService_DeleteUnmappedProperties_OutputMessage

The **SchemaService_DeleteUnmappedProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteUnmappedProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteUnmappedProper
tiesResponse
```

The SOAP body MUST contain a **DeleteUnmappedPropertiesResponse** element.

3.9.4.27.1.3 SchemaService_DeleteUnmappedProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_DeleteUnmappedProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_DeleteUnmappedProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
DeleteUnmappedPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.27.2 Elements

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

3.9.4.27.2.1 DeleteUnmappedProperties

The **DeleteUnmappedProperties** element contains the input data for a **DeleteUnmappedProperties** operation.

```
<xsd:element name="DeleteUnmappedProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CategoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category from which unmapped properties are deleted.

3.9.4.27.2.2 DeleteUnmappedPropertiesResponse

The **DeleteUnmappedPropertiesResponse** element contains result data for a **DeleteUnmappedProperties** operation.

```
<xsd:element name="DeleteUnmappedPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.27.3 Complex Types

None.

3.9.4.27.4 Simple Types

None.

3.9.4.27.5 Attributes

None.

3.9.4.27.6 Groups

None.

3.9.4.27.7 Attribute Groups

None.

3.9.4.28 GetAllCategories

The **GetAllCategories** operation retrieves all categories.

```
<wsdl:operation name="GetAllCategories">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCategories" message="tns:SchemaService_GetAllCategories_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCategoriesResponse" message="tns:SchemaService_GetAllCategories_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCategoriesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllCategories_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetAllCategories_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetAllCategories_OutputMessage** response message.

3.9.4.28.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.28.1.1 SchemaService_GetAllCategories_InputMessage

The **SchemaService_GetAllCategories_InputMessage** request message initiates the operation to retrieve all categories.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllCategories
```

The SOAP body MUST contain a **GetAllCategories** element.

3.9.4.28.1.2   SchemaService_GetAllCategories_OutputMessage

The **SchemaService_GetAllCategories_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllCategories_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCategoriesResponse
```

The SOAP body MUST contain a **GetAllCategoriesResponse** element.

3.9.4.28.1.3   SchemaService_GetAllCategories_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetAllCategories_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllCategories_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCategoriesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.28.2   Elements

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

3.9.4.28.2.1   GetAllCategories

The **GetAllCategories** element contains the input data for a **GetAllCategories** operation.

```
<xsd:element name="GetAllCategories">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.28.2.2   GetAllCategoriesResponse

The **GetAllCategoriesResponse** element contains the output data from a **GetAllCategories** operation. The response contains an **ArrayOfCategoryDTO**.

```
<xsd:element name="GetAllCategoriesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllCategoriesResult" nillable="true"
type="tns:ArrayOfCategoryDTO" />
```

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

GetAllCategoriesResult: An **ArrayOfCategoryDTO.** Each **CategoryDTO** contains the elements of the given crawled property category.

3.9.4.28.3   Complex Types

None.

3.9.4.28.4   Simple Types

None.

3.9.4.28.5   Attributes

None.

3.9.4.28.6   Groups

None.

3.9.4.28.7   Attribute Groups

None.

3.9.4.29   GetAllCrawledProperties

The **GetAllCrawledProperties** operation retrieves all crawled properties for this crawled property category.

```
<wsdl:operation name="GetAllCrawledProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledProperties" message="tns:SchemaService_GetAllCrawledProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesResponse"
message="tns:SchemaService_GetAllCrawledProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllCrawledProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetAllCrawledProperties_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetAllCrawledProperties_OutputMessage** response message.

3.9.4.29.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.29.1.1 SchemaService_GetAllCrawledProperties_InputMessage

The **SchemaService_GetAllCrawledProperties_InputMessage** request message initiates the operation to retrieve all crawled properties for the crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllCrawledPropert
ies
```

The SOAP body MUST contain a **GetAllCrawledProperties** element.

3.9.4.29.1.2 SchemaService_GetAllCrawledProperties_OutputMessage

The **SchemaService_GetAllCrawledProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllCrawledProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesResponse
```

The SOAP body MUST contain a **GetAllCrawledPropertiesResponse** element.

3.9.4.29.1.3 SchemaService_GetAllCrawledProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetAllCrawledProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllCrawledProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.29.2 Elements

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

3.9.4.29.2.1 GetAllCrawledProperties

The **GetAllCrawledProperties** element contains the input data for a **GetAllCrawledProperties** operation.

```
<xsd:element name="GetAllCrawledProperties">
  <xsd:complexType>
    <xsd:sequence>
```

```
      <xsd:element minOccurs="0" name="CategoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category from which to retrieve all crawled properties.

3.9.4.29.2.2 GetAllCrawledPropertiesResponse

The **GetAllCrawledPropertiesResponse** element contains the output data from a
GetAllCrawledProperties operation. The response contains an **ArrayOfCrawledPropertyDTO**.

```
<xsd:element name="GetAllCrawledPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllCrawledPropertiesResult" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllCrawledPropertiesResult: An array of **CrawledPropertyDTO**.

3.9.4.29.3 Complex Types

None.

3.9.4.29.4 Simple Types

None.

3.9.4.29.5 Attributes

None.

3.9.4.29.6 Groups

None.

3.9.4.29.7 Attribute Groups

None.

3.9.4.30 GetAllCrawledPropertiesCount

The **GetAllCrawledPropertiesCount** operation retrieves a count of all crawled properties for the given category.

```
<wsdl:operation name="GetAllCrawledPropertiesCount">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCount"
message="tns:SchemaService_GetAllCrawledPropertiesCount_InputMessage"/>
```

```
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCountResponse"
message="tns:SchemaService_GetAllCrawledPropertiesCount_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCountAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllCrawledPropertiesCount_AdminExceptionWCFFault_FaultMessage"/
>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetAllCrawledPropertiesCount_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetAllCrawledPropertiesCount_OutputMessage response message.

3.9.4.30.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.30.1.1 SchemaService_GetAllCrawledPropertiesCount_InputMessage

The **SchemaService_GetAllCrawledPropertiesCount_InputMessage** request message initiates
the operation to retrieve the count of crawled properties for the given category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCount
```

The SOAP body MUST contain a **GetAllCrawledPropertiesCount** element.

3.9.4.30.1.2 SchemaService_GetAllCrawledPropertiesCount_OutputMessage

The **SchemaService_GetAllCrawledPropertiesCount_OutputMessage** response message is
sent in reply to the request that is initiated by the
SchemaService_GetAllCrawledPropertiesCount_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCount
```

The SOAP body MUST contain a **GetAllCrawledPropertiesCountResponse** element.

3.9.4.30.1.3
SchemaService_GetAllCrawledPropertiesCount_AdminExceptionWCFFault_FaultMessage

The
SchemaService_GetAllCrawledPropertiesCount_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_GetAllCrawledPropertiesCount_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllCrawledPropertiesCountAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.30.2   Elements

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

3.9.4.30.2.1   GetAllCrawledPropertiesCount

The **GetAllCrawledPropertiesCount** element contains the input data for a **GetAllCrawledPropertiesCount** operation.

```
<xsd:element name="GetAllCrawledPropertiesCount">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="categoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

categoryId: The identifier of the crawled property category for which to retrieve the crawled properties count.

3.9.4.30.2.2   GetAllCrawledPropertiesCountResponse

The **GetAllCrawledPropertiesCountResponse** element contains the output data for a **GetAllCrawledPropertiesCount** operation. The response contains an integer value that represents the count of crawled properties in the category.

```
<xsd:element name="GetAllCrawledPropertiesCountResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllCrawledPropertiesCountResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllCrawledPropertiesCountResult: The number of crawled properties in the crawled property category.

3.9.4.30.3   Complex Types

None.

3.9.4.30.4   Simple Types

None.

3.9.4.30.5 Attributes

None.

3.9.4.30.6 Groups

None.

3.9.4.30.7 Attribute Groups

None.

3.9.4.31 GetAllFullTextIndecies

The **GetAllFullTextIndecies** operation retrieves all full-text index fields.

```
<wsdl:operation name="GetAllFullTextIndecies">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndecies" message="tns:SchemaService_GetAllFullTextIndecies_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndeciesResponse"
message="tns:SchemaService_GetAllFullTextIndecies_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndeciesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllFullTextIndecies_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetAllFullTextIndecies_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetAllFullTextIndecies_OutputMessage** response message.

3.9.4.31.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.31.1.1 SchemaService_GetAllFullTextIndecies_InputMessage

The **SchemaService_GetAllFullTextIndecies_InputMessage** request message initiates the operation to retrieve all full-text index fields.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndecies
```

The SOAP body MUST contain a **GetAllFullTextIndecies** element.

3.9.4.31.1.2 SchemaService_GetAllFullTextIndecies_OutputMessage

The **SchemaService_GetAllFullTextIndecies_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllFullTextIndecies_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndeciesResponse
```

The SOAP body MUST contain a **GetAllFullTextIndeciesResponse** element.

3.9.4.31.1.3 SchemaService_GetAllFullTextIndecies_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetAllFullTextIndecies_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllFullTextIndecies_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllFullTextIndeciesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.31.2 Elements

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

3.9.4.31.2.1 GetAllFullTextIndecies

The **GetAllFullTextIndecies** element contains the input data for a **GetAllFullTextIndecies** operation.

```
<xsd:element name="GetAllFullTextIndecies">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.31.2.2 GetAllFullTextIndeciesResponse

The **GetAllFullTextIndeciesResponse** element contains the output data from a **GetAllFullTextIndecies** operation. The response contains an **ArrayOfFullTextIndexDTO**.

```
<xsd:element name="GetAllFullTextIndeciesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllFullTextIndeciesResult" nillable="true"
type="tns:ArrayOfFullTextIndexDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllFullTextIndeciesResult: An **ArrayOfFullTextIndexDTO.** Each **FullTextIndexDTO** contains the elements of a full-text index field.

3.9.4.31.3 Complex Types

None.

3.9.4.31.4 Simple Types

None.

3.9.4.31.5 Attributes

None.

3.9.4.31.6 Groups

None.

3.9.4.31.7 Attribute Groups

None.

3.9.4.32 GetAllManagedProperties

The **GetAllManagedProperties** operation retrieves all managed properties.

```
<wsdl:operation name="GetAllManagedProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedProperties" message="tns:SchemaService_GetAllManagedProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedPropertiesResponse"
message="tns:SchemaService_GetAllManagedProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllManagedProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetAllManagedProperties_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetAllManagedProperties_OutputMessage** response message.

3.9.4.32.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.32.1.1 SchemaService_GetAllManagedProperties_InputMessage

The **SchemaService_GetAllManagedProperties_InputMessage** request message initiates the operation to retrieve all managed properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedProperties
```

The SOAP body MUST contain a **GetAllManagedProperties** element.

3.9.4.32.1.2 SchemaService_GetAllManagedProperties_OutputMessage

The **SchemaService_GetAllManagedProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllManagedProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedPropertiesResponse
```

The SOAP body MUST contain a **GetAllManagedPropertiesResponse** element.

3.9.4.32.1.3 SchemaService_GetAllManagedProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetAllManagedProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllManagedProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllManagedPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.32.2 Elements

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

3.9.4.32.2.1 GetAllManagedProperties

The **GetAllManagedProperties** element contains the input data for a **GetAllManagedProperties** operation.

```
<xsd:element name="GetAllManagedProperties">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.32.2.2 GetAllManagedPropertiesResponse

The **GetAllManagedPropertiesResponse** element contains the output data from a **GetAllManagedProperties** operation. The response contains an **ArrayOfManagedPropertyDTO**.

```
<xsd:element name="GetAllManagedPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllManagedPropertiesResult" nillable="true"
type="tns:ArrayOfManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllManagedPropertiesResult: An **ArrayOfManagedPropertyDTO**. Each **ManagedPropertyDTO** contains the elements of a managed property.

3.9.4.32.3 Complex Types

None.

3.9.4.32.4 Simple Types

None.

3.9.4.32.5 Attributes

None.

3.9.4.32.6 Groups

None.

3.9.4.32.7 Attribute Groups

None.

3.9.4.33 GetAllRankProfiles

The **GetAllRankProfiles** operation retrieves all rank profiles.

```
<wsdl:operation name="GetAllRankProfiles">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllRankProfiles" message="tns:SchemaService_GetAllRankProfiles_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllRankProfilesResponse" message="tns:SchemaService_GetAllRankProfiles_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllRankProfilesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetAllRankProfiles_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetAllRankProfiles_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetAllRankProfiles_OutputMessage** response message.

3.9.4.33.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.33.1.1 SchemaService_GetAllRankProfiles_InputMessage

The **SchemaService_GetAllRankProfiles_InputMessage** request message initiates the operation to retrieve all rank profiles.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllRankProfiles
```

The SOAP body MUST contain a **GetAllRankProfiles** element.

3.9.4.33.1.2 SchemaService_GetAllRankProfiles_OutputMessage

The **SchemaService_GetAllRankProfiles_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllRankProfiles_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllRankProfilesResponse
```

The SOAP body MUST contain a **GetAllRankProfilesResponse** element.

3.9.4.33.1.3 SchemaService_GetAllRankProfiles_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetAllRankProfiles_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetAllRankProfiles_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetAllRankProfilesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.33.2 Elements

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

3.9.4.33.2.1 GetAllRankProfiles

The **GetAllRankProfiles** element contains the input data for a **GetAllRankProfiles** operation.

```
<xsd:element name="GetAllRankProfiles">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.33.2.2 GetAllRankProfilesResponse

The **GetAllRankProfilesResponse** element contains the output data from a **GetAllRankProfiles** operation. The response contains a list of **RankProfileDTO**.

```
<xsd:element name="GetAllRankProfilesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllRankProfilesResult" nillable="true"
type="tns:ArrayOfRankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetAllRankProfilesResult: An **ArrayOfRankProfileDTO.** Each **RankProfileDTO** contains the elements of a rank profile.

3.9.4.33.3 Complex Types

None.

3.9.4.33.4 Simple Types

None.

3.9.4.33.5 Attributes

None.

3.9.4.33.6 Groups

None.

3.9.4.33.7 Attribute Groups

None.

3.9.4.34 GetCategory

The **GetCategory** operation retrieves the crawled property category associated with a GUID.

```
<wsdl:operation name="GetCategory">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategory" message="tns:SchemaService_GetCategory_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryResponse" message="tns:SchemaService_GetCategory_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetCategory_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetCategory_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetCategory_OutputMessage** response message.

3.9.4.34.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.34.1.1 SchemaService_GetCategory_InputMessage

The **SchemaService_GetCategory_InputMessage** request message initiates the operation to retrieve the crawled property category for the specified global unique identifier.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCategory
```

The SOAP body MUST contain a **GetCategory** element.

3.9.4.34.1.2 SchemaService_GetCategory_OutputMessage

The **SchemaService_GetCategory_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCategory_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ GetCategoryResponse
```

The SOAP body MUST contain a **GetCategoryResponse** element.

3.9.4.34.1.3 SchemaService_GetCategory_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetCategory_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCategory_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.34.2 Elements

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

3.9.4.34.2.1 GetCategory

The **GetCategory** element contains the input data for a **GetCategory** operation.

```
<xsd:element name="GetCategory">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="propset" type="ser:guid"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

propset: The GUID of the requested crawled property category.

3.9.4.34.2.2 GetCategoryResponse

The **GetCategoryResponse** element contains the output data from a **GetCategory** operation. The response contains a **CategoryDTO**.

```
<xsd:element name="GetCategoryResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetCategoryResult" nillable="true"
type="tns:CategoryDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetCategoryResult: The elements of the retrieved crawled property category.

3.9.4.34.3 Complex Types

None.

3.9.4.34.4 Simple Types

None.

3.9.4.34.5 Attributes

None.

3.9.4.34.6 Groups

None.

3.9.4.34.7 Attribute Groups

None.

3.9.4.35 GetCategoryByName

The **GetCategoryByName** operation retrieves a crawled property category.

```
<wsdl:operation name="GetCategoryByName">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryByName" message="tns:SchemaService_GetCategoryByName_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryByNameResponse" message="tns:SchemaService_GetCategoryByName_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryByNameAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetCategoryByName_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetCategoryByName_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetCategoryByName_OutputMessage** response message.

3.9.4.35.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.35.1.1 SchemaService_GetCategoryByName_InputMessage

The **SchemaService_GetCategoryByName_InputMessage** request message initiates the operation to retrieve a crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ GetCategoryByName
```

The SOAP body MUST contain a **GetCategoryByName** element.

3.9.4.35.1.2 SchemaService_GetCategoryByName_OutputMessage

The **SchemaService_GetCategoryByName_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCategoryByName_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryByNameResponse
```

The SOAP body MUST contain a **GetCategoryByNameResponse** element.

3.9.4.35.1.3 SchemaService_GetCategoryByName_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetCategoryByName_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCategoryByName_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCategoryByNameAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.35.2 Elements

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

3.9.4.35.2.1 GetCategoryByName

The **GetCategoryByName** element contains the input data for a **GetCategoryByName** operation.

```
<xsd:element name="GetCategoryByName">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the crawled property category to retrieve.

3.9.4.35.2.2 GetCategoryByNameResponse

The **GetCategoryByNameResponse** element contains the output data from a **GetCategoryByName** operation. The response contains a **CategoryDTO**.

```
<xsd:element name="GetCategoryByNameResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetCategoryByNameResult" nillable="true"
type="tns:CategoryDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetCategoryByNameResult: The elements of the retrieved crawled property category.

3.9.4.35.3 Complex Types

None.

3.9.4.35.4 Simple Types

None.

3.9.4.35.5 Attributes

None.

3.9.4.35.6 Groups

None.

3.9.4.35.7 Attribute Groups

None.

3.9.4.36 GetCrawledProperty

The **GetCrawledProperty** operation retrieves a crawled property. A crawled property is uniquely identified by the combination of the name, crawled property category identifier and variant type.

```
<wsdl:operation name="GetCrawledProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledProperty" message="tns:SchemaService_GetCrawledProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyResponse" message="tns:SchemaService_GetCrawledProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetCrawledProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetCrawledProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetCrawledProperty_OutputMessage** response message.

3.9.4.36.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.36.1.1 SchemaService_GetCrawledProperty_InputMessage

The **SchemaService_GetCrawledProperty_InputMessage** request message initiates the operation to retrieve a crawled property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCrawledProperty
```

The SOAP body MUST contain a **GetCrawledProperty** element.

3.9.4.36.1.2 SchemaService_GetCrawledProperty_OutputMessage

The **SchemaService_GetCrawledProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCrawledProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyResponse
```

The SOAP body MUST contain a **GetCrawledPropertyResponse** element.

3.9.4.36.1.3 SchemaService_GetCrawledProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetCrawledProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetCrawledProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.36.2 Elements

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

3.9.4.36.2.1 GetCrawledProperty

The **GetCrawledProperty** element contains the input data for a **GetCrawledProperty** operation.

```
<xsd:element name="GetCrawledProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="propset" type="ser:guid"/>
      <xsd:element minOccurs="0" name="CrawledPropertyName" type="xsd:string"/>
      <xsd:element minOccurs="0" name="variantType" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

propset: The GUID of the crawled property category that is associated with the requested crawled property.

CrawledPropertyName: The name of the crawled property to retrieve.

variantType: The variant type of the crawled property to retrieve. The valid values for this element are specified by the table in section 2.2.4.32.

3.9.4.36.2.2 GetCrawledPropertyResponse

The **GetCrawledPropertyResponse** element contains the output data from a **GetCrawledProperty** operation. The response contains a **CrawledPropertyDTO**.

```
<xsd:element name="GetCrawledPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetCrawledPropertyResult" nillable="true"
type="tns:CrawledPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetCrawledPropertyResult: A **CrawledPropertyDTO** containing the elements of the crawled property that was retrieved.

3.9.4.36.3 Complex Types

None.

3.9.4.36.4 Simple Types

None.

3.9.4.36.5 Attributes

None.

3.9.4.36.6 Groups

None.

3.9.4.36.7 Attribute Groups

None.

3.9.4.37 GetCrawledPropertyMappings

The **GetCrawledPropertyMappings** operation retrieves a collection of mapped, crawled properties. This collection can be used to create new crawled property mappings.

```
<wsdl:operation name="GetCrawledPropertyMappings">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappings"
message="tns:SchemaService_GetCrawledPropertyMappings_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappingsResponse"
message="tns:SchemaService_GetCrawledPropertyMappings_OutputMessage"/>
```

```
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappingsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage"/>
   </wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetCrawledPropertyMappings_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetCrawledPropertyMappings_OutputMessage response message.

3.9.4.37.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.37.1.1 SchemaService_GetCrawledPropertyMappings_InputMessage

The **SchemaService_GetCrawledPropertyMappings_InputMessage** request initiates the
operation to retrieve a collection of mapped, crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappings
```

The SOAP body MUST contain a **GetCrawledPropertyMappings** element.

3.9.4.37.1.2 SchemaService_GetCrawledPropertyMappings_OutputMessage

The **SchemaService_GetCrawledPropertyMappings_OutputMessage** response message is sent
in reply to the request that is initiated by the
SchemaService_GetCrawledPropertyMappings_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappingsResponse
```

The SOAP body MUST contain a **GetCrawledPropertyMappingsResponse** element.

3.9.4.37.1.3
SchemaService_GetCrawledPropertyMappings_AdminExceptionWCFFault_FaultM
essage

The
SchemaService_GetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_GetCrawledPropertyMappings_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetCrawledPropertyMappingsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.37.2   Elements

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

3.9.4.37.2.1   GetCrawledPropertyMappings

The **GetCrawledPropertyMappings** element contains the input data for a
GetCrawledPropertyMappings operation.

```
<xsd:element name="GetCrawledPropertyMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="id" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

id: The identifier for the managed property to map.

3.9.4.37.2.2   GetCrawledPropertyMappingsResponse

The **GetCrawledPropertyMappingsResponse** element contains the output data from a
GetCrawledPropertyMappings operation. The response contains an
ArrayOfCrawledPropertyDTO.

```
<xsd:element name="GetCrawledPropertyMappingsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetCrawledPropertyMappingsResult" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetCrawledPropertyMappingsResult: An **ArrayOfCrawledPropertyDTO**. Each
CrawledPropertyDTO contains the elements of the retrieved crawled property.

3.9.4.37.3   Complex Types

None.

3.9.4.37.4   Simple Types

None.

3.9.4.37.5   Attributes

None.

3.9.4.37.6 Groups

None.

3.9.4.37.7 Attribute Groups

None.

3.9.4.38 GetFreshnessManagedPropertyReference

The **GetFreshnessManagedPropertyReference** operation retrieves the managed property that is used for freshness boost in a given rank profile.

```
<wsdl:operation name="GetFreshnessManagedPropertyReference">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReference"
message="tns:SchemaService_GetFreshnessManagedPropertyReference_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReferenceResponse"
message="tns:SchemaService_GetFreshnessManagedPropertyReference_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReferenceAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultM
essage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetFreshnessManagedPropertyReference_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetFreshnessManagedPropertyReference_OutputMessage** response message.

3.9.4.38.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.38.1.1 SchemaService_GetFreshnessManagedPropertyReference_InputMessage

The **SchemaService_GetFreshnessManagedPropertyReference_InputMessage** request message initiates the operation to retrieve the managed property used for freshness boost in a given rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReference
```

The SOAP body MUST contain a **GetFreshnessManagedPropertyReference** element.

3.9.4.38.1.2 SchemaService_GetFreshnessManagedPropertyReference_OutputMessage

The **SchemaService_GetFreshnessManagedPropertyReference_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFreshnessManagedPropertyReference_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReferenceResponse
```

The SOAP body MUST contain a **GetFreshnessManagedPropertyReferenceResponse** element.

3.9.4.38.1.3 SchemaService_GetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFreshnessManagedPropertyReference_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFreshnessManagedPropertyReferenceAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.38.2 Elements

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

3.9.4.38.2.1 GetFreshnessManagedPropertyReference

The **GetFreshnessManagedPropertyReference** element contains the input data for a **GetFreshnessManagedPropertyReference** operation.

```
<xsd:element name="GetFreshnessManagedPropertyReference">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile that contains the managed property.

3.9.4.38.2.2 GetFreshnessManagedPropertyReferenceResponse

The **GetFreshnessManagedPropertyReferenceResponse** element contains output data from a **GetFreshnessManagedPropertyReference** operation. The response contains a **ManagedPropertyDTO**.

```
<xsd:element name="GetFreshnessManagedPropertyReferenceResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFreshnessManagedPropertyReferenceResult"
nillable="true" type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetFreshnessManagedPropertyReferenceResult: A **ManagedPropertyDTO** that contains the elements of the retrieved managed property.

3.9.4.38.3 Complex Types

None.

3.9.4.38.4 Simple Types

None.

3.9.4.38.5 Attributes

None.

3.9.4.38.6 Groups

None.

3.9.4.38.7 Attribute Groups

None.

3.9.4.39 GetFullTextIndex

The **GetFullTextIndex** operation retrieves a full-text index field.

```
<wsdl:operation name="GetFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndex" message="tns:SchemaService_GetFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexResponse" message="tns:SchemaService_GetFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetFullTextIndex_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetFullTextIndex_OutputMessage** response message.

3.9.4.39.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.39.1.1 SchemaService_GetFullTextIndex_InputMessage

The **SchemaService_GetFullTextIndex_InputMessage** request message initiates the operation to retrieve a full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFullTextIndex
```

The SOAP body MUST contain a **GetFullTextIndex** element.

3.9.4.39.1.2 SchemaService_GetFullTextIndex_OutputMessage

The **SchemaService_GetFullTextIndex_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFullTextIndex_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexResponse
```

The SOAP body MUST contain a **GetFullTextIndexResponse** element.

3.9.4.39.1.3 SchemaService_GetFullTextIndex_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetFullTextIndex_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFullTextIndex_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.39.2 Elements

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

3.9.4.39.2.1 GetFullTextIndex

The **GetFullTextIndex** element contains input data for a **GetFullTextIndex** operation.

```
<xsd:element name="GetFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the full-text index field to retrieve.

3.9.4.39.2.2 GetFullTextIndexResponse

The **GetFullTextIndexResponse** element contains output data from a **GetFullTextIndex** operation. The response contains a **FullTextIndexDTO**.

```
<xsd:element name="GetFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFullTextIndexResult" nillable="true"
type="tns:FullTextIndexDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetFullTextIndexResult: A **FullTextIndexDTO** that contains the elements of the full-text index field that was retrieved.

3.9.4.39.3 Complex Types

None.

3.9.4.39.4 Simple Types

None.

3.9.4.39.5 Attributes

None.

3.9.4.39.6 Groups

None.

3.9.4.39.7 Attribute Groups

None.

3.9.4.40 GetFullTextIndexMappings

The **GetFullTextIndexMappings** operation retrieves information about the full-text index fields in which a managed property is included.

```
<wsdl:operation name="GetFullTextIndexMappings">
```

```
    <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappings" message="tns:SchemaService_GetFullTextIndexMappings_InputMessage"/>
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappingsResponse"
message="tns:SchemaService_GetFullTextIndexMappings_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappingsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetFullTextIndexMappings_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetFullTextIndexMappings_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetFullTextIndexMappings_OutputMessage response message.

3.9.4.40.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.40.1.1 SchemaService_GetFullTextIndexMappings_InputMessage

The **SchemaService_GetFullTextIndexMappings_InputMessage** request message initiates the
operation to retrieve information about the full-text index fields in which a managed property is
included.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappings
```

The SOAP body MUST contain a **GetFullTextIndexMappings** element.

3.9.4.40.1.2 SchemaService_GetFullTextIndexMappings_OutputMessage

The **SchemaService_GetFullTextIndexMappings_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_GetFullTextIndexMappings_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappingsResponse
```

The SOAP body MUST contain a **GetFullTextIndexMappingsResponse** element.

3.9.4.40.1.3 SchemaService_GetFullTextIndexMappings_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetFullTextIndexMappings_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

SchemaService_GetFullTextIndexMappings_InputMessage message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexMappingsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.40.2 Elements

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

3.9.4.40.2.1 GetFullTextIndexMappings

The **GetFullTextIndexMappings** element contains input data for a **GetFullTextIndexMappings** operation.

```
<xsd:element name="GetFullTextIndexMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ManagedPropertyId: The identifier of the managed property for which to retrieve information about the full-text index fields.

3.9.4.40.2.2 GetFullTextIndexMappingsResponse

The **GetFullTextIndexMappingsResponse** element contains output data from a **GetFullTextIndexMappings** operation. The response contains a list of **FullTextIndexMappingDTO**.

```
<xsd:element name="GetFullTextIndexMappingsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFullTextIndexMappingsResult" nillable="true"
type="tns:ArrayOfFullTextIndexMappingDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetFullTextIndexMappingsResult: An **ArrayOfFullTextIndexMappingDTO.** Each **FullTextIndexMappingDTO** contains elements that specify a full-text index field in which the managed property is included.

3.9.4.40.3 Complex Types

None.

3.9.4.40.4 Simple Types

None.

3.9.4.40.5 Attributes

None.

3.9.4.40.6 Groups

None.

3.9.4.40.7 Attribute Groups

None.

3.9.4.41 GetFullTextIndexRankCollection

The **GetFullTextIndexRankCollection** operation retrieves a full-text index rank collection.

```
<wsdl:operation name="GetFullTextIndexRankCollection">
      <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexRankCollection"
message="tns:SchemaService_GetFullTextIndexRankCollection_InputMessage"/>
      <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexRankCollectionResponse"
message="tns:SchemaService_GetFullTextIndexRankCollection_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexRankCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetFullTextIndexRankCollection_AdminExceptionWCFFault_FaultMessage
"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetFullTextIndexRankCollection_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetFullTextIndexRankCollection_OutputMessage response message.

3.9.4.41.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.41.1.1 SchemaService_GetFullTextIndexRankCollection_InputMessage

The **SchemaService_GetFullTextIndexRankCollection_InputMessage** request message
initiates the operation to retrieve a full-text index rank collection.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexRankCollection
```

The SOAP body MUST contain a **GetFullTextIndexRankCollection** element.

3.9.4.41.1.2 SchemaService_GetFullTextIndexRankCollection_OutputMessage

The **SchemaService_GetFullTextIndexRankCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFullTextIndexRankCollection_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexRankCollectionResponse
```

The SOAP body MUST contain a **GetFullTextIndexRankCollectionResponse** element.

3.9.4.41.1.3 SchemaService_GetFullTextIndexRankCollection_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetFullTextIndexRankCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetFullTextIndexRankCollection_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetFullTextIndexRankCollectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.41.2 Elements

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

3.9.4.41.2.1 GetFullTextIndexRankCollection

The **GetFullTextIndexRankCollection** element contains input data for a **GetFullTextIndexRankCollection** operation.

```
<xsd:element name="GetFullTextIndexRankCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile from which to retrieve the full-text index field rank component.

3.9.4.41.2.2 GetFullTextIndexRankCollectionResponse

The **GetFullTextIndexRankCollectionResponse** element contains output data from a
GetFullTextIndexRankCollection operation. The response contains an
ArrayOfFullTextIndexRankComponentDTO.

```
<xsd:element name="GetFullTextIndexRankCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFullTextIndexRankCollectionResult" nillable="true"
type="tns:ArrayOfFullTextIndexRankComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetFullTextIndexRankCollectionResult: An **ArrayOfFullTextIndexRankComponentDTO**. Each
FullTextIndexRankComponentDTO contains the elements of the given full-text index rank
collection.

3.9.4.41.3 Complex Types

None.

3.9.4.41.4 Simple Types

None.

3.9.4.41.5 Attributes

None.

3.9.4.41.6 Groups

None.

3.9.4.41.7 Attribute Groups

None.

3.9.4.42 GetImportanceLevelWeight

The **GetImportanceLevelWeight** operation retrieves the weight of an importance level.

```
<wsdl:operation name="GetImportanceLevelWeight">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetImportanceLevelWeight" message="tns:SchemaService_GetImportanceLevelWeight_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetImportanceLevelWeightResponse"
message="tns:SchemaService_GetImportanceLevelWeight_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetImportanceLevelWeightAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage"/>
```

```
        </wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetImportanceLevelWeight_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetImportanceLevelWeight_OutputMessage** response message.

3.9.4.42.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.42.1.1 SchemaService_GetImportanceLevelWeight_InputMessage

The **SchemaService_GetImportanceLevelWeight_InputMessage** request message initiates the operation to retrieve the weight of an importance level.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetImportanceLevelWeight
```

The SOAP body MUST contain a **GetImportanceLevelWeight** element.

3.9.4.42.1.2 SchemaService_GetImportanceLevelWeight_OutputMessage

The **SchemaService_GetImportanceLevelWeight_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetImportanceLevelWeight_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetImportanceLevelWe
ightResponse
```

The SOAP body MUST contain a **GetImportanceLevelWeightResponse** element.

3.9.4.42.1.3 SchemaService_GetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetImportanceLevelWeight_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetImportanceLevelWeightAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.42.2   Elements

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

3.9.4.42.2.1   GetImportanceLevelWeight

The **GetImportanceLevelWeight** element contains input data for a **GetImportanceLevelWeight** operation.

```
<xsd:element name="GetImportanceLevelWeight">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="FullTextIndexId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="ImportanceLevel" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile.

fullTextIndexId: The identifier of the full-text index field.

ImportanceLevel: The importance level.

3.9.4.42.2.2   GetImportanceLevelWeightResponse

The **GetImportanceLevelWeightResponse** element contains output data for a **GetImportanceLevelWeight** operation. The response contains an integer value that specifies the importance level weight.

```
<xsd:element name="GetImportanceLevelWeightResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetImportanceLevelWeightResult" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetImportanceLevelWeightResult: The weight of the importance level.

3.9.4.42.3   Complex Types

None.

3.9.4.42.4   Simple Types

None.

3.9.4.42.5   Attributes

None.

3.9.4.42.6 Groups

None.

3.9.4.42.7 Attribute Groups

None.

3.9.4.43 GetManagedProperty

The **GetManagedProperty** operation retrieves a managed property.

```
<wsdl:operation name="GetManagedProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedProperty" message="tns:SchemaService_GetManagedProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyResponse" message="tns:SchemaService_GetManagedProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetManagedProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetManagedProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetManagedProperty_OutputMessage** response message.

3.9.4.43.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.43.1.1 SchemaService_GetManagedProperty_InputMessage

The **SchemaService_GetManagedProperty_InputMessage** request message initiates the operation to retrieve a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetManagedProperty
```

The SOAP body MUST contain a **GetManagedProperty** element.

3.9.4.43.1.2 SchemaService_GetManagedProperty_OutputMessage

The **SchemaService_GetManagedProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetManagedProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetManagedPropertyRe
sponse
```

The SOAP body MUST contain a **GetManagedPropertyResponse** element.

3.9.4.43.1.3 SchemaService_GetManagedProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetManagedProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetManagedProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.43.2 Elements

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

3.9.4.43.2.1 GetManagedProperty

The **GetManagedProperty** element contains input data for a **GetManagedProperty** operation.

```
<xsd:element name="GetManagedProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="1" name="name" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the managed property to retrieve.

3.9.4.43.2.2 GetManagedPropertyResponse

The **GetManagedPrpoertyResponse** element contains output data from a **GetManagedProperty** operation. The response contains a **ManagedPropertyDTO**.

```
<xsd:element name="GetManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetManagedPropertyResult" nillable="true"
type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetManagedPropertyResult: A **ManagedPropertyDTO** containing the elements of the managed property that was retrieved.

3.9.4.43.3 Complex Types

None.

3.9.4.43.4 Simple Types

None.

3.9.4.43.5 Attributes

None.

3.9.4.43.6 Groups

None.

3.9.4.43.7 Attribute Groups

None.

3.9.4.44 GetManagedPropertyBoostCollection

The **GetManagedPropertyBoostCollection** operation retrieves a list of keyword rank components.

```
<wsdl:operation name="GetManagedPropertyBoostCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollection"
message="tns:SchemaService_GetManagedPropertyBoostCollection_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollectionResponse"
message="tns:SchemaService_GetManagedPropertyBoostCollection_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetManagedPropertyBoostCollection_AdminExceptionWCFFault_FaultMess
age"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetManagedPropertyBoostCollection_InputMessage request message.
When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetManagedPropertyBoostCollection_OutputMessage response message.

3.9.4.44.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.44.1.1 SchemaService_GetManagedPropertyBoostCollection_InputMessage

The **SchemaService_GetManagedPropertyBoostCollection_InputMessage** request message
initiates the operation to retrieve a list of keyword rank components.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollection
```

The SOAP body MUST contain a **GetManagedPropertyBoostCollection** element.

3.9.4.44.1.2 SchemaService_GetManagedPropertyBoostCollection_OutputMessage

The **SchemaService_GetManagedPropertyBoostCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetManagedPropertyBoostCollection_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollectionResponse
```

The SOAP body MUST contain a **GetManagedPropertyBoostCollectionResponse** element.

3.9.4.44.1.3 SchemaService_GetManagedPropertyBoostCollection_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetManagedPropertyBoostCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetManagedPropertyBoostCollection_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyBoostCollectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.44.2 Elements

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

3.9.4.44.2.1 GetManagedPropertyBoostCollection

The **GetManagedPropertyBoostCollection** element contains input data for a **GetManagedPropertyBoostCollection** operation.

```
<xsd:element name="GetManagedPropertyBoostCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile from which to retrieve the managed property boost collection.

3.9.4.44.2.2 GetManagedPropertyBoostCollectionResponse

The **GetManagedPropertyBoostCollectionResponse** element contains output data from a **GetManagedPropertyBoostCollection** operation. The response contains an **ArrayOfManagedPropertyBoostComponentDTO**.

```
<xsd:element name="GetManagedPropertyBoostCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetManagedPropertyBoostCollectionResult"
nillable="true" type="tns:ArrayOfManagedPropertyBoostComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetManagedPropertyBoostCollectionResult: An **ArrayOfManagedPropertyBoostComponentDTO.** Each **ManagedPropertyBoostComponentDTO** contains the elements of the given keyword rank component.

3.9.4.44.3 Complex Types

None.

3.9.4.44.4 Simple Types

None.

3.9.4.44.5 Attributes

None.

3.9.4.44.6 Groups

None.

3.9.4.44.7 Attribute Groups

None.

3.9.4.45 GetManagedPropertyById

The **GetManagedPropertyById** operation retrieves a managed property.

```
<wsdl:operation name="GetManagedPropertyById">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyById" message="tns:SchemaService_GetManagedPropertyById_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyByIdResponse"
message="tns:SchemaService_GetManagedPropertyById_OutputMessage"/>
```

```
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyByIdAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetManagedPropertyById_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetManagedPropertyById_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetManagedPropertyById_OutputMessage response message.

3.9.4.45.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.45.1.1 SchemaService_GetManagedPropertyById_InputMessage

The **SchemaService_GetManagedPropertyById_InputMessage** request message initiates the
operation to retrieve a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyById
```

The SOAP body MUST contain a **GetManagedPropertyById** element.

3.9.4.45.1.2 SchemaService_GetManagedPropertyById_OutputMessage

The **SchemaService_GetManagedPropertyById_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_GetManagedPropertyById_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyByIdResponse
```

The SOAP body MUST contain a **GetManagedPropertyByIdResponse** element.

3.9.4.45.1.3
SchemaService_GetManagedPropertyById_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetManagedPropertyById_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_GetManagedPropertyById_InputMessage message. The schema server MUST
return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetManagedPropertyByIdAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.45.2   Elements

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

3.9.4.45.2.1   GetManagedPropertyById

The **GetManagedPropertyById** element contains input data for a **GetManagedPropertyById** operation.

```
<xsd:element name="GetManagedPropertyById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="id" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

id: The identifier of the managed property to retrieve.

3.9.4.45.2.2   GetManagedPropertyByIdResponse

The **GetManagedPropertyByIdResponse** element contains output data from a **GetManagedPropertyById** operation. The response contains a **ManagedPropertyDTO**.

```
<xsd:element name="GetManagedPropertyByIdResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetManagedPropertyByIdResult" nillable="true"
type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetManagedPropertyByIdResult: A **ManagedPropertyDTO** containing the elements of the managed property that was retrieved.

3.9.4.45.3   Complex Types

None.

3.9.4.45.4   Simple Types

None.

3.9.4.45.5   Attributes

None.

3.9.4.45.6   Groups

None.

3.9.4.45.7   Attribute Groups

None.

3.9.4.46   GetMappedManagedProperties

The **GetMappedManagedProperties** operation retrieves the managed properties that the crawled property is mapped to.

```
<wsdl:operation name="GetMappedManagedProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedProperties"
message="tns:SchemaService_GetMappedManagedProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedPropertiesResponse"
message="tns:SchemaService_GetMappedManagedProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetMappedManagedProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetMappedManagedProperties_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetMappedManagedProperties_OutputMessage response message.

3.9.4.46.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.46.1.1   SchemaService_GetMappedManagedProperties_InputMessage

The **SchemaService_GetMappedManagedProperties_InputMessage** request message initiates
the operation to retrieve the managed properties to which the crawled property is mapped.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedProperties
```

The SOAP body MUST contain a **GetMappedManagedProperties** element.

3.9.4.46.1.2   SchemaService_GetMappedManagedProperties_OutputMessage

The **SchemaService_GetMappedManagedProperties_OutputMessage** response message is
sent in reply to the request that is initiated by the
SchemaService_GetMappedManagedProperties_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedPropertiesResponse
```

The SOAP body MUST contain a **GetMappedManagedPropertiesResponse** element.

3.9.4.46.1.3 SchemaService_GetMappedManagedProperties_AdminExceptionWCFFault_Fault Message

The
SchemaService_GetMappedManagedProperties_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the
SchemaService_GetMappedManagedProperties_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappedManagedPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.46.2 Elements

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

3.9.4.46.2.1 GetMappedManagedProperties

The **GetMappedManagedProperties** element contains input data for a
GetMappedManagedProperties operation.

```
<xsd:element name="GetMappedManagedProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CrawledPropertyID" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CrawledPropertyID: The identifier of the crawled property to retrieve the mapped managed
properties from.

3.9.4.46.2.2 GetMappedManagedPropertiesResponse

The **GetMappedManagedPropertiesResponse** element contains output data from a
GetMappedManagedProperties operation. The response contains an
ArrayOfManagedPropertyDTO.

```
<xsd:element name="GetMappedManagedPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetMappedManagedPropertiesResult" nillable="true"
type="tns:ArrayOfManagedPropertyDTO" />
```

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

GetMappedManagedPropertiesResult: An **ArrayOfManagedPropertyDTO.** Each **ManagedPropertyDTO** contains the elements of a managed property.

3.9.4.46.3 Complex Types

None.

3.9.4.46.4 Simple Types

None.

3.9.4.46.5 Attributes

None.

3.9.4.46.6 Groups

None.

3.9.4.46.7 Attribute Groups

None.

3.9.4.47 GetMappingsForLevel

The **GetMappingsForLevel** operation retrieves the managed properties that are mapped to this full-text index field.

```
<wsdl:operation name="GetMappingsForLevel">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappingsForLevel" message="tns:SchemaService_GetMappingsForLevel_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappingsForLevelResponse" message="tns:SchemaService_GetMappingsForLevel_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappingsForLevelAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetMappingsForLevel_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetMappingsForLevel_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_GetMappingsForLevel_OutputMessage** response message.

3.9.4.47.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.47.1.1   SchemaService_GetMappingsForLevel_InputMessage

The **SchemaService_GetMappingsForLevel_InputMessage** request message initiates the operation to retrieve the managed properties that are mapped to this full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMappingsForLevel
```

The SOAP body MUST contain a **GetMappingsForLevel** element.

3.9.4.47.1.2   SchemaService_GetMappingsForLevel_OutputMessage

The **SchemaService_GetMappingsForLevel_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetMappingsForLevel_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappingsForLevelResponse
```

The SOAP body MUST contain a **GetMappingsForLevelResponse** element.

3.9.4.47.1.3   SchemaService_GetMappingsForLevel_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetMappingsForLevel_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetMappingsForLevel_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetMappingsForLevelAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.47.2   Elements

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

3.9.4.47.2.1   GetMappingsForLevel

The **GetMappingsForLevel** element contains input data for a **GetMappingsForLevel** operation.

```
<xsd:element name="GetMappingsForLevel">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="fullTextIndexId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="importanceLevel" type="xsd:int"/>
    </xsd:sequence>
```

```
    </xsd:complexType>
  </xsd:element>
```

fullTextIndexID: The identifier of the full-text index field from which to retrieve the managed properties.

importanceLevel: The importance level of the managed properties to retrieve. Only the managed properties with the same importance level are part of the mapping.

3.9.4.47.2.2   GetMappingsForLevelResponse

The **GetMappingsForLevelResponse** element contains output data from a **GetMappingsForLevel** operation. The response contains an **ArrayOfManagedPropertyDTO**.

```
<xsd:element name="GetMappingsForLevelResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetMappingsForLevelResult" nillable="true"
type="tns:ArrayOfManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetMappingsForLevelResult: An **ArrayOfManagedPropertyDTO.** Each **ManagedPropertyDTO** contains the elements of a managed property.

3.9.4.47.3   Complex Types

None.

3.9.4.47.4   Simple Types

None.

3.9.4.47.5   Attributes

None.

3.9.4.47.6   Groups

None.

3.9.4.47.7   Attribute Groups

None.

3.9.4.48   GetPropsetCategoryMappings

The **GetPropsetCategoryMappings** operation retrieves the GUIDs that are associated with a crawled property category.

```
<wsdl:operation name="GetPropsetCategoryMappings">
```

```
    <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappings"
message="tns:SchemaService_GetPropsetCategoryMappings_InputMessage"/>
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappingsResponse"
message="tns:SchemaService_GetPropsetCategoryMappings_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappingsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetPropsetCategoryMappings_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetPropsetCategoryMappings_OutputMessage response message.

3.9.4.48.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.48.1.1   SchemaService_GetPropsetCategoryMappings_InputMessage

The **SchemaService_GetPropsetCategoryMappings_InputMessage** request message initiates
the operation to retrieve the GUIDs that are associated with a crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappings
```

The SOAP body MUST contain a **GetPropsetCategoryMappings** element.

3.9.4.48.1.2   SchemaService_GetPropsetCategoryMappings_OutputMessage

The **SchemaService_GetPropsetCategoryMappings_OutputMessage** response message is sent
in reply to the request that is initiated by the
SchemaService_GetPropsetCategoryMappings_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappingsResponse
```

The SOAP body MUST contain a **GetPropsetCategoryMappingsResponse** element.

3.9.4.48.1.3 SchemaService_GetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage

The
SchemaService_GetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage

response message in reply to the request that is initiated by the
SchemaService_GetPropsetCategoryMappings_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetPropsetCategoryMappingsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.48.2 Elements

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

3.9.4.48.2.1 GetPropsetCategoryMappings

The **GetPropsetCategoryMappings** element contains input data for a
GetPropsetCategoryMappings operation.

```
<xsd:element name="GetPropsetCategoryMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CategoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category from which to retrieve the GUIDs
associated with this category.

3.9.4.48.2.2 GetPropsetCategoryMappingsResponse

The **GetPropsetCategoryMappingsResponse** element contains output data for a
GetPropsetCategoryMappings operation. The response contains an **ArrayOfguid** containing the
GUIDs that are associated with the crawled property category.

```
<xsd:element name="GetPropsetCategoryMappingsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPropsetCategoryMappingsResult" nillable="true"
type="msa:ArrayOfguid"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetPropsetCategoryMappingsResult: An **ArrayOfguid** containing the GUIDs associated with this
crawled property category.

3.9.4.48.3 Complex Types

None.

3.9.4.48.4 Simple Types

None.

3.9.4.48.5 Attributes

None.

3.9.4.48.6 Groups

None.

3.9.4.48.7 Attribute Groups

None.

3.9.4.49 GetQualityComponentCollection

The **GetQualityComponentCollection** operation retrieves a list of quality rank components from a rank profile.

```
<wsdl:operation name="GetQualityComponentCollection">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollection"
message="tns:SchemaService_GetQualityComponentCollection_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollectionResponse"
message="tns:SchemaService_GetQualityComponentCollection_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollectionAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetQualityComponentCollection_AdminExceptionWCFFault_FaultMessage"
/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetQualityComponentCollection_InputMessage request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetQualityComponentCollection_OutputMessage response message.

3.9.4.49.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.49.1.1 SchemaService_GetQualityComponentCollection_InputMessage

The **SchemaService_GetQualityComponentCollection_InputMessage** request message initiates the operation to retrieve a list of quality rank components from a rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollection
```

The SOAP body MUST contain a **GetQualityComponentCollection** element.

3.9.4.49.1.2 SchemaService_GetQualityComponentCollection_OutputMessage

The **SchemaService_GetQualityComponentCollection_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetQualityComponentCollection_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollectionResponse
```

The SOAP body MUST contain a **GetQualityComponentCollectionResponse** element.

3.9.4.49.1.3 SchemaService_GetQualityComponentCollection_AdminExceptionWCFFault_Fault Message

The **SchemaService_GetQualityComponentCollection_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetQualityComponentCollection_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQualityComponentCollectionAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.49.2 Elements

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

3.9.4.49.2.1 GetQualityComponentCollection

The **GetQualityComponentCollection** element contains input data for a **GetQualityComponentCollection** operation.

```
<xsd:element name="GetQualityComponentCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileID: The identifier of the rank profile from which to retrieve the quality rank components.

3.9.4.49.2.2 GetQualityComponentCollectionResponse

The **GetQualityComponentCollectionResponse** element contains output data from a **GetQualityComponentCollection** operation. The response contains an **ArrayOfQualityComponentDTO**.

```
<xsd:element name="GetQualityComponentCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetQualityComponentCollectionResult" nillable="true"
type="tns:ArrayOfQualityComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetQualityComponentCollectionResult: An **ArrayOfQualityComponentDTO.** Each **QualityComponentDTO** contains the elements of a quality rank component.

3.9.4.49.3 Complex Types

None.

3.9.4.49.4 Simple Types

None.

3.9.4.49.5 Attributes

None.

3.9.4.49.6 Groups

None.

3.9.4.49.7 Attribute Groups

None.

3.9.4.50 GetQueryCrawledProperties

The **GetQueryCrawledProperties** operation retrieves a list of crawled properties.

```
<wsdl:operation name="GetQueryCrawledProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledProperties"
message="tns:SchemaService_GetQueryCrawledProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesResponse"
message="tns:SchemaService_GetQueryCrawledProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetQueryCrawledProperties_AdminExceptionWCFFault_FaultMessage"/>
```

```
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetQueryCrawledProperties_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetQueryCrawledProperties_OutputMessage response message.

3.9.4.50.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.50.1.1 SchemaService_GetQueryCrawledProperties_InputMessage

The **SchemaService_GetQueryCrawledProperties_InputMessage** request message initiates
the operation to retrieve a list of crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledProperties
```

The SOAP body MUST contain a **GetQueryCrawledProperties** element.

3.9.4.50.1.2 SchemaService_GetQueryCrawledProperties_OutputMessage

The **SchemaService_GetQueryCrawledProperties_OutputMessage** response message is sent
in reply to the request that is initiated by the
SchemaService_GetQueryCrawledProperties_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesResponse
```

The SOAP body MUST contain a **GetQueryCrawledPropertiesResponse** element.

3.9.4.50.1.3
SchemaService_GetQueryCrawledProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetQueryCrawledProperties_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
SchemaService_GetQueryCrawledProperties_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.50.2   Elements

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

3.9.4.50.2.1   GetQueryCrawledProperties

The **GetQueryCrawledProperties** element contains input data for a **GetQueryCrawledProperties** operation.

```
<xsd:element name="GetQueryCrawledProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

filter: A string value that is the name of the crawled property.

offset: An integer value that specifies the position in the result set at which to begin.

count: An integer value that specifies the size of the result set.

3.9.4.50.2.2   GetQueryCrawledPropertiesResponse

The **GetQueryCrawledPropertiesResponse** element contains output data from a **GetQueryCrawledProperties** operation. The response contains an **ArrayOfCrawledPropertyDTO**.

```
<xsd:element name="GetQueryCrawledPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetQueryCrawledPropertiesResult" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetQueryCrawledPropertiesResult: An **ArrayOfCrawledPropertyDTO.** Each **CrawledPropertyDTO** contains the elements of a crawled property.

3.9.4.50.3   Complex Types

None.

3.9.4.50.4   Simple Types

None.

3.9.4.50.5   Attributes

None.

3.9.4.50.6 Groups

None.

3.9.4.50.7 Attribute Groups

None.

3.9.4.51 GetQueryCrawledPropertiesByWildcard

The **GetQueryCrawledPropertiesByWildcard** operation retrieves a list of crawled properties.

```
<wsdl:operation name="GetQueryCrawledPropertiesByWildcard">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcard"
message="tns:SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcardResponse"
message="tns:SchemaService_GetQueryCrawledPropertiesByWildcard_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcardAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetQueryCrawledPropertiesByWildcard_AdminExceptionWCFFault_FaultMe
ssage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage request message.
When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetQueryCrawledPropertiesByWildcard_OutputMessage response message.

3.9.4.51.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.51.1.1 SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage

The **SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage** request
message initiates the operation to retrieve a list of crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcard
```

The SOAP body MUST contain a **GetQueryCrawledPropertiesByWildcard** element.

3.9.4.51.1.2 SchemaService_GetQueryCrawledPropertiesByWildcard_OutputMessage

The **SchemaService_GetQueryCrawledPropertiesByWildcard_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcardResponse
```

The SOAP body MUST contain a **GetQueryCrawledPropertiesByWildcardResponse** element.

3.9.4.51.1.3 SchemaService_GetQueryCrawledPropertiesByWildcard_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetQueryCrawledPropertiesByWildcard_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetQueryCrawledPropertiesByWildcard_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetQueryCrawledPropertiesByWildcardAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.51.2 Elements

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

3.9.4.51.2.1 GetQueryCrawledPropertiesByWildcard

The **GetQueryCrawledPropertiesByWildcard** element contains input data for a **GetQueryCrawledPropertiesByWildcard** operation.

```
<xsd:element name="GetQueryCrawledPropertiesByWildcard">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: A string value that is the name of the crawled property. The string value may contain wildcard characters.

offset: An integer value that specifies the position in the result set at which to begin.

count: An integer value that specifies the size of the result set.

3.9.4.51.2.2 GetQueryCrawledPropertiesByWildcardResponse

The **GetQueryCrawledPropertiesByWildcardResponse** element contains output data from a **GetQueryCrawledPropertiesByWildcard** operation. The response contains an **ArrayOfCrawledPropertyDTO**.

```
<xsd:element name="GetQueryCrawledPropertiesByWildcardResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetQueryCrawledPropertiesByWildcardResult"
nillable="true" type="tns:ArrayOfCrawledPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetQueryCrawledPropertiesByWildcardResult: An **ArrayOfCrawledPropertyDTO.** Each **CrawledPropertyDTO** contains the elements of a crawled property.

3.9.4.51.3 Complex Types

None.

3.9.4.51.4 Simple Types

None.

3.9.4.51.5 Attributes

None.

3.9.4.51.6 Groups

None.

3.9.4.51.7 Attribute Groups

None.

3.9.4.52 GetRankProfile

The **GetRankProfile** operation retrieves a rank profile.

```
<wsdl:operation name="GetRankProfile">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRankProfile" message="tns:SchemaService_GetRankProfile_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRankProfileResponse" message="tns:SchemaService_GetRankProfile_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
```

```
GetRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetRankProfile_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetRankProfile_InputMessage** request
message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_GetRankProfile_OutputMessage response message.

3.9.4.52.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.52.1.1 SchemaService_GetRankProfile_InputMessage

The **SchemaService_GetRankProfile_InputMessage** request message initiates the operation to
retrieve a rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRankProfile
```

The SOAP body MUST contain a **GetRankProfile** element.

3.9.4.52.1.2 SchemaService_GetRankProfile_OutputMessage

The **SchemaService_GetRankProfile_OutputMessage** response message is sent in reply to the
request that is initiated by the **SchemaService_GetRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRankProfileResponse
```

The SOAP body MUST contain a **GetRankProfileResponse** element.

3.9.4.52.1.3
SchemaService_GetRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetRankProfile_AdminExceptionWCFFault_FaultMessage** response
message is sent in reply to the request that is initiated by the
SchemaService_GetRankProfile_InputMessage message. The schema server MUST return this
response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRankProfileAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.52.2 Elements

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

3.9.4.52.2.1 GetRankProfile

The **GetRankProfile** element contains input data for a **GetRankProfile** operation.

```
<xsd:element name="GetRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

name: The name of the rank profile to retrieve.

3.9.4.52.2.2 GetRankProfileResponse

The **GetRankProfileResponse** element contains output data from a **GetRankProfile** operation. The response contains a **RankProfileDTO**.

```
<xsd:element name="GetRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetRankProfileResult" nillable="true"
type="tns:RankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetRankProfileResult: The elements of the retrieved rank profile.

3.9.4.52.3 Complex Types

None.

3.9.4.52.4 Simple Types

None.

3.9.4.52.5 Attributes

None.

3.9.4.52.6 Groups

None.

3.9.4.52.7 Attribute Groups

None.

3.9.4.53 GetRefinerConfiguration

The **GetRefinerConfiguration** operation retrieves a refiner configuration from a managed property.

```
<wsdl:operation name="GetRefinerConfiguration">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfiguration" message="tns:SchemaService_GetRefinerConfiguration_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfigurationResponse"
message="tns:SchemaService_GetRefinerConfiguration_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfigurationAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_GetRefinerConfiguration_InputMessage**
request message. On successful completion, the schema server MUST respond with a
SchemaService_GetRefinerConfiguration_OutputMessage response message.

3.9.4.53.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.53.1.1 SchemaService_GetRefinerConfiguration_InputMessage

The **SchemaService_GetRefinerConfiguration_InputMessage** request message initiates the
operation to retrieve a refiner configuration from a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfiguration
```

The SOAP body MUST contain a **GetRefinerConfiguration** element.

3.9.4.53.1.2 SchemaService_GetRefinerConfiguration_OutputMessage

The **SchemaService_GetRefinerConfiguration_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_GetRefinerConfiguration_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfigurationResponse
```

The SOAP body MUST contain a **GetRefinerConfigurationResponse** element.

3.9.4.53.1.3 SchemaService_GetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the

---

SchemaService_GetRefinerConfiguration_InputMessage message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetRefinerConfigurationAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.53.2 Elements

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

3.9.4.53.2.1 GetRefinerConfiguration

The **GetRefinerConfiguration** element contains input data for a **GetRefinerConfiguration** operation.

```
<xsd:element name="GetRefinerConfiguration">
   <xsd:complexType>
      <xsd:sequence>
         <xsd:element minOccurs="0" name="ManagedPropertyId" type="xsd:long"/>
      </xsd:sequence>
   </xsd:complexType>
</xsd:element>
```

ManagedPropertyId: The identifier of the managed property with the refiner configuration.

3.9.4.53.2.2 GetRefinerConfigurationResponse

The **GetRefinerConfigurationResponse** element contains output data from a **GetRefinerConfiguration** operation. The response contains a **RefinerConfigurationDTO**.

```
<xsd:element name="GetRefinerConfigurationResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetRefinerConfigurationResult" nillable="true"
type="tns:RefinerConfigurationDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetRefinerConfigurationResult: A **RefinerConfigurationDTO** containing the elements of the refiner configuration that was retrieved from the managed property.

3.9.4.53.3 Complex Types

None.

3.9.4.53.4 Simple Types

None.

3.9.4.53.5 Attributes

None.

3.9.4.53.6 Groups

None.

3.9.4.53.7 Attribute Groups

None.

3.9.4.54 GetUnmappedCrawledProperties

The **GetUnmappedCrawledProperties** operation retrieves all unmapped crawled properties.

```
<wsdl:operation name="GetUnmappedCrawledProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledProperties"
message="tns:SchemaService_GetUnmappedCrawledProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledPropertiesResponse"
message="tns:SchemaService_GetUnmappedCrawledProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_GetUnmappedCrawledProperties_AdminExceptionWCFFault_FaultMessage"/
>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_GetUnmappedCrawledProperties_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_GetUnmappedCrawledProperties_OutputMessage response message.

3.9.4.54.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.54.1.1 SchemaService_GetUnmappedCrawledProperties_InputMessage

The **SchemaService_GetUnmappedCrawledProperties_InputMessage** request message
initiates the operation to retrieve all unmapped crawled properties.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledProperties
```

The SOAP body MUST contain a **GetUnmappedCrawledProperties** element.

3.9.4.54.1.2 SchemaService_GetUnmappedCrawledProperties_OutputMessage

The **SchemaService_GetUnmappedCrawledProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetUnmappedCrawledProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledPropertiesResponse
```

The SOAP body MUST contain a **GetUnmappedCrawledPropertiesResponse** element.

3.9.4.54.1.3 SchemaService_GetUnmappedCrawledProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_GetUnmappedCrawledProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_GetUnmappedCrawledProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
GetUnmappedCrawledPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.54.2 Elements

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

3.9.4.54.2.1 GetUnmappedCrawledProperties

The **GetUnmappedCrawledProperties** element contains input data for a **GetUnmappedCrawledProperties** operation.

```
<xsd:element name="GetUnmappedCrawledProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CategoryId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category from which to retrieve the unmapped crawled properties.

3.9.4.54.2.2 GetUnmappedCrawledPropertiesResponse

The **GetUnmappedCrawledPropertiesResponse** element contains output data from a **GetUnmappedCrawledProperties** operation. The response contains an **ArrayOfCrawledPropertyDTO**.

```
<xsd:element name="GetUnmappedCrawledPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetUnmappedCrawledPropertiesResult" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

GetUnmappedCrawledPropertiesResult: An **ArrayOfCrawledPropertyDTO**.

3.9.4.54.3 Complex Types

None.

3.9.4.54.4 Simple Types

None.

3.9.4.54.5 Attributes

None.

3.9.4.54.6 Groups

None.

3.9.4.54.7 Attribute Groups

None.

3.9.4.55 MakeDefaultFullTextIndex

The **MakeDefaultFullTextIndex** operation sets a full-text index field to be the default full-text index field. Search queries that do not search a specific full-text index field or managed property MUST be evaluated against the default full-text index field. This operation is asynchronous. This operation MUST update the rank.cf and indexConfig.xml files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="MakeDefaultFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultFullTextIndex" message="tns:SchemaService_MakeDefaultFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/
SchemaService/MakeDefaultFullTextIndexResponse"
message="tns:SchemaService_MakeDefaultFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_MakeDefaultFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
```

```
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_MakeDefaultFullTextIndex_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_MakeDefaultFullTextIndex_OutputMessage response message.

3.9.4.55.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.55.1.1 SchemaService_MakeDefaultFullTextIndex_InputMessage

The **SchemaService_MakeDefaultFullTextIndex_InputMessage** request message initiates the
operation to make a full-text index field the default full-text index field.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultFullTextIndex
```

The SOAP body MUST contain a **MakeDefaultFullTextIndex** element.

3.9.4.55.1.2 SchemaService_MakeDefaultFullTextIndex_OutputMessage

The **SchemaService_MakeDefaultFullTextIndex_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_MakeDefaultFullTextIndex_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDefaultFullTextI
ndexResponse
```

The SOAP body MUST contain a **MakeDefaultFullTextIndexResponse** element.

3.9.4.55.1.3
**SchemaService_MakeDefaultFullTextIndex_AdminExceptionWCFFault_FaultMess
age**

The **SchemaService_MakeDefaultFullTextIndex_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
SchemaService_MakeDefaultFullTextIndex_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.55.2   Elements

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

3.9.4.55.2.1   MakeDefaultFullTextIndex

The **MakeDefaultFullTextIndex** element contains input data for a **MakeDefaultFullTextIndex** operation.

```
<xsd:element name="MakeDefaultFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="FullTextIndexName" nillable="true" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

FullTextIndexName: The name of the full-text index field to make the default full-text index field.

3.9.4.55.2.2   MakeDefaultFullTextIndexResponse

The **MakeDefaultFullTextIndexResponse** element contains result data for a **MakeDefaultFullTextIndex** operation.

```
<xsd:element name="MakeDefaultFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.55.3   Complex Types

None.

3.9.4.55.4   Simple Types

None.

3.9.4.55.5   Attributes

None.

3.9.4.55.6   Groups

None.

3.9.4.55.7   Attribute Groups

None.

3.9.4.56 MakeDefaultRankProfile

The MakeDefaultRankProfile operation makes a rank profile the default rank profile. Any search query against the search application that does not specify a rank profile or sorting operation MUST be sorted according to the default rank-profile. This operation is asynchronous, and the rank.cf and indexConfig.xml configuration files MUST be updated (see [MS-FSSCFG] section 2). The default rank profile is always listed as the first of the rank profiles listed in the indexConfig.xml and rank.cf configuration files.<wsdl:operation name="MakeDefaultRankProfile">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultRankProfile" message="tns:SchemaService_MakeDefaultRankProfile_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ SchemaService/
MakeDefaultRankProfileResponse"
message="tns:SchemaService_MakeDefaultRankProfile_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_MakeDefaultRankProfile_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>

The protocol client MUST send a **SchemaService_MakeDefaultRankProfile_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_MakeDefaultRankProfile_OutputMessage** response message.

3.9.4.56.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.56.1.1 SchemaService_MakeDefaultRankProfile_InputMessage

The **SchemaService_MakeDefaultRankProfile_InputMessage** request message initiates the operation to make a rank profile the default rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultRankProfile
```

The SOAP body MUST contain a **MakeDefaultRankProfile** element.

3.9.4.56.1.2 SchemaService_MakeDefaultRankProfile_OutputMessage

The **SchemaService_MakeDefaultRankProfile_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_MakeDefaultRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDefaultRankProfi
leResponse
```

The SOAP body MUST contain a **MakeDefaultRankProfileResponse** element.

3.9.4.56.1.3 SchemaService_MakeDefaultRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_MakeDefaultRankProfile_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_MakeDefaultRankProfile_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
MakeDefaultRankProfileAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.56.2 Elements

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

3.9.4.56.2.1 MakeDefaultRankProfile

The **MakeDefaultRankProfile** element contains input data for a **MakeDefaultRankProfile** operation.

```
<xsd:element name="MakeDefaultRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile to set as the default rank profile.

3.9.4.56.2.2 MakeDefaultRankProfileResponse

The **MakeDefaultRankProfileResponse** element contains result data for a **MakeDefaultRankProfile** operation.

```
<xsd:element name="MakeDefaultRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.56.3 Complex Types

None.

3.9.4.56.4 Simple Types

None.

3.9.4.56.5 Attributes

None.

3.9.4.56.6 Groups

None.

3.9.4.56.7 Attribute Groups

None.

3.9.4.57 QueryCrawledProperties

The **QueryCrawledProperties** operation retrieves a list of crawled properties for a crawled property category.

```
<wsdl:operation name="QueryCrawledProperties">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledProperties" message="tns:SchemaService_QueryCrawledProperties_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledPropertiesResponse"
message="tns:SchemaService_QueryCrawledProperties_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledPropertiesAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_QueryCrawledProperties_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_QueryCrawledProperties_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_QueryCrawledProperties_OutputMessage** response message.

3.9.4.57.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.57.1.1 SchemaService_QueryCrawledProperties_InputMessage

The **SchemaService_QueryCrawledProperties_InputMessage** request message initiates the operation to retrieve the list of crawled properties for a crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledProperties
```

The SOAP body MUST contain a **QueryCrawledProperties** element.

3.9.4.57.1.2 SchemaService_QueryCrawledProperties_OutputMessage

The **SchemaService_QueryCrawledProperties_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_QueryCrawledProperties_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledPropertiesResponse
```

The SOAP body MUST contain a **QueryCrawledPropertiesResponse** element.

3.9.4.57.1.3 SchemaService_QueryCrawledProperties_AdminExceptionWCFFault_FaultMessage

The **SchemaService_QueryCrawledProperties_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_QueryCrawledProperties_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
QueryCrawledPropertiesAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.57.2 Elements

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

3.9.4.57.2.1 QueryCrawledProperties

The **QueryCrawledProperties** element contains input data for a **QueryCrawledProperties** operation.

```
<xsd:element name="QueryCrawledProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CategoryName" nillable="true" type="xsd:string"/>
      <xsd:element minOccurs="0" name="filter" type="xsd:string"/>
      <xsd:element minOccurs="0" name="offset" type="xsd:int"/>
      <xsd:element minOccurs="0" name="count" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryName: The identifier of the crawled property category from which to retrieve the crawled properties.

filter: A string value that is the name of the crawled property.

offset: An integer value that specifies the position in the result set at which to begin.

count: An integer value that specifies the size of the result set.

3.9.4.57.2.2   QueryCrawledPropertiesResponse

The **QueryCrawledPropertiesResponse** element contains output data from a **QueryCrawledProperties** operation. The response contains an **ArrayOfCrawledPropertyDTO**.

```
<xsd:element name="QueryCrawledPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="QueryCrawledPropertiesResult" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

QueryCrawledPropertiesResult: An **ArrayOfCrawledPropertyDTO.** Each **CrawledPropertyDTO** contains the elements of a crawled property.

3.9.4.57.3   Complex Types

None.

3.9.4.57.4   Simple Types

None.

3.9.4.57.5   Attributes

None.

3.9.4.57.6   Groups

None.

3.9.4.57.7   Attribute Groups

None.

3.9.4.58   QueryCrawledPropertiesByWildcard

3.9.4.59   SetCrawledPropertyMappings

The **SetCrawledPropertyMappings** operation sets crawled property mappings for a managed property. The operation MUST update the ManagedProperties.xml configuration file (see [MS-FSPSCFG] section 2.2) to propagate the change to the rest of the search system. This operation will only impact new content being processed, and existing content MUST be reprocessed from the content source for the change to take effect.

```
<wsdl:operation name="SetCrawledPropertyMappings">
  <wsdl:input
  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
```

```
SetCrawledPropertyMappings"
message="tns:SchemaService_SetCrawledPropertyMappings_InputMessage"/>
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetCrawledPropertyMappingsResponse"
message="tns:SchemaService_SetCrawledPropertyMappings_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetCrawledPropertyMappingsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_SetCrawledPropertyMappings_InputMessage request message. When the
operation finishes successfully, the schema server MUST respond with a
SchemaService_SetCrawledPropertyMappings_OutputMessage response message.

3.9.4.59.1   Messages

The following WSDL message definitions are specific to this operation.

3.9.4.59.1.1   SchemaService_SetCrawledPropertyMappings_InputMessage

The **SchemaService_SetCrawledPropertyMappings_InputMessage** request message initiates
the operation that sets crawled property mappings for a managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetCrawledPropertyMappings
```

The SOAP body MUST contain a **SetCrawledPropertyMappings** element.

3.9.4.59.1.2   SchemaService_SetCrawledPropertyMappings_OutputMessage

The **SchemaService_SetCrawledPropertyMappings_OutputMessage** response message is sent
in reply to the request that is initiated by the
SchemaService_SetCrawledPropertyMappings_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetCrawledPropertyMappingsResponse
```

The SOAP body MUST contain a **SetCrawledPropertyMappingsResponse** element.

3.9.4.59.1.3
SchemaService_SetCrawledPropertyMappings_AdminExceptionWCFFault_FaultM
essage

The
SchemaService_SetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage
response message is sent in reply to the request that is initiated by the

SchemaService_SetCrawledPropertyMappings_InputMessage message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetCrawledPropertyMappingsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.59.2   Elements

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

3.9.4.59.2.1   SetCrawledPropertyMappings

The **SetCrawledPropertyMappings** element contains input data for a **SetCrawledPropertyMappings** operation.

```
<xsd:element name="SetCrawledPropertyMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="id" type="xsd:long"/>
      <xsd:element minOccurs="0" name="cpm" nillable="true"
type="tns:ArrayOfCrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

id: The identifier of the managed property to which to map the provided crawled properties.

cpm: An **ArrayOfCrawledPropertyDTO**.

3.9.4.59.2.2   SetCrawledPropertyMappingsResponse

The **SetCrawledPropertyMappingsResponse** element contains output data from a **SetCrawledPropertyMappings** operation.

```
<xsd:element name="SetCrawledPropertyMappingsResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.59.3   Complex Types

None.

3.9.4.59.4   Simple Types

None.

3.9.4.59.5 Attributes

None.

3.9.4.59.6 Groups

None.

3.9.4.59.7 Attribute Groups

None.

3.9.4.60 SetFreshnessManagedPropertyReference

The **SetFreshnessManagedPropertyReference** operation sets the managed property that is used as a reference of freshness for a rank profile. The freshness indicates the age of a document relative to the time at which the query was issued. This operation is asynchronous. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="SetFreshnessManagedPropertyReference">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetFreshnessManagedPropertyReference"
message="tns:SchemaService_SetFreshnessManagedPropertyReference_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ SchemaService/
SetFreshnessManagedPropertyReferenceResponse"
message="tns:SchemaService_SetFreshnessManagedPropertyReference_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetFreshnessManagedPropertyReferenceAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultM
essage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_SetFreshnessManagedPropertyReference_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_SetFreshnessManagedPropertyReference_OutputMessage** response message.

3.9.4.60.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.60.1.1 SchemaService_SetFreshnessManagedPropertyReference_InputMessage

The **SchemaService_SetFreshnessManagedPropertyReference_InputMessage** request message initiates the operation to set the managed property that is used as a reference of freshness.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetFreshnessManagedPropertyReference
```

The SOAP body MUST contain a **SetFreshnessManagedPropertyReference** element.

3.9.4.60.1.2 SchemaService_SetFreshnessManagedPropertyReference_OutputMessage

The **SchemaService_SetFreshnessManagedPropertyReference_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetFreshnessManagedPropertyReference_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetFreshnessManagedP
ropertyReferenceResponse
```

The SOAP body MUST contain a **SetFreshnessManagedPropertyReferenceResponse** element.

3.9.4.60.1.3 SchemaService_SetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage

The **SchemaService_SetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetFreshnessManagedPropertyReference_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetFreshnessManagedPropertyReferenceAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.60.2 Elements

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

3.9.4.60.2.1 SetFreshnessManagedPropertyReference

The **SetFreshnessManagedPropertyReference** element contains input data for a **SetFreshnessManagedPropertyReference** operation.

```
<xsd:element name="SetFreshnessManagedPropertyReference">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="1" name="ManagedPropertyName" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
        </xsd:element>
```

RankProfileId: The identifier of the rank profile.

ManagedPropertyName: The managed property for which to set freshness.

3.9.4.60.2.2   SetFreshnessManagedPropertyReferenceResponse

The **SetFreshnessManagedPropertyReferenceResponse** element contains result data for a
SetFreshnessManagedPropertyReference operation.

```
    <xsd:element name="SetFreshnessManagedPropertyReferenceResponse">
      <xsd:complexType>
        <xsd:sequence/>
      </xsd:complexType>
    </xsd:element>
```

The element is empty.

3.9.4.60.3   Complex Types

None.

3.9.4.60.4   Simple Types

None.

3.9.4.60.5   Attributes

None.

3.9.4.60.6   Groups

None.

3.9.4.60.7   Attribute Groups

None.

3.9.4.61   SetImportanceLevelWeight

The **SetImportanceLevelWeight** operation sets the relevancy weight for a given importance level
of a full-text index field for a specific rank profile. This operation is asynchronous. This operation
MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
    <wsdl:operation name="SetImportanceLevelWeight">
      <wsdl:input
    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
    SetImportanceLevelWeight" message="tns:SchemaService_SetImportanceLevelWeight_InputMessage"/>
      <wsdl:output
    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ SchemaService/
    SetImportanceLevelWeightResponse"
    message="tns:SchemaService_SetImportanceLevelWeight_OutputMessage"/>
```

```
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetImportanceLevelWeightAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage"/>
   </wsdl:operation>
```

The protocol client MUST send a **SchemaService_SetImportanceLevelWeight_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_SetImportanceLevelWeight_OutputMessage response message.

3.9.4.61.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.61.1.1 SchemaService_SetImportanceLevelWeight_InputMessage

The **SchemaService_SetImportanceLevelWeight_InputMessage** request message initiates the
operation to set the weight for a given importance level.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetImportanceLevelWeight
```

The SOAP body MUST contain a **SetImportanceLevelWeight** element.

3.9.4.61.1.2 SchemaService_SetImportanceLevelWeight_OutputMessage

The **SchemaService_SetImportanceLevelWeight_OutputMessage** response message is sent in
reply to the request that is initiated by the
SchemaService_SetImportanceLevelWeight_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetImportanceLevelWe
ightResponse
```

The SOAP body MUST contain a **SetImportanceLevelWeightResponse** element.

3.9.4.61.1.3
SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMes
sage

The **SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage**
response message is sent in reply to the request that is initiated by the
SchemaService_SetImportanceLevelWeight_InputMessage message. The schema server
MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetImportanceLevelWeightAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.61.2 Elements

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

3.9.4.61.2.1 SetImportanceLevelWeight

The **SetImportanceLevelWeight** element contains input data for a **SetImportanceLevelWeight** operation.

```
<xsd:element name="SetImportanceLevelWeight">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="FullTextIndexId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="ImportanceLevel" type="xsd:int"/>
      <xsd:element minOccurs="0" name="Weight" type="xsd:int"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile for which to set the weight of the importance level.

FullTextIndexId: The identifier of the full-text index field.

ImportanceLevel: The importance level to set.

Weight: The weight to set.

3.9.4.61.2.2 SetImportanceLevelWeightResponse

The **SetImportanceLevelWeightResponse** element contains result data for a **SetImportanceLevelWeight** operation.

```
<xsd:element name="SetImportanceLevelWeightResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.61.3 Complex Types

None.

3.9.4.61.4 Simple Types

None.

3.9.4.61.5 Attributes

None.

3.9.4.61.6 Groups

None.

3.9.4.61.7 Attribute Groups

None.

3.9.4.62 SetPropsetCategoryMappings

The **SetPropsetCategoryMappings** operation associates GUIDs with a crawled property category. Crawled properties that have any of these unique identifiers as propset values (see **CrawledPropertyDTO**) MUST be regarded as being associated with this category. This operation MUST update the PropertyCategories.xml file (see [MS-FSPSCFG] section 2.3).

```
<wsdl:operation name="SetPropsetCategoryMappings">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappings"
message="tns:SchemaService_SetPropsetCategoryMappings_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappingsResponse"
message="tns:SchemaService_SetPropsetCategoryMappings_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappingsAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_SetPropsetCategoryMappings_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_SetPropsetCategoryMappings_OutputMessage** response message.

3.9.4.62.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.62.1.1 SchemaService_SetPropsetCategoryMappings_InputMessage

The **SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage** request message initiates the operation that associates the global unique identifiers with a crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappings
```

The SOAP body MUST contain an **SetPropsetCategoryMappings** element.

3.9.4.62.1.2 SchemaService_SetPropsetCategoryMappings_OutputMessage

The **SchemaService_SetPropsetCategoryMappings_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetPropsetCategoryMappings_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappingsResponse
```

The SOAP body MUST contain a **SetPropsetCategoryMappingsResponse** element.

3.9.4.62.1.3 SchemaService_SetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage

The **SchemaService_SetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetPropsetCategoryMappings_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetPropsetCategoryMappingsAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.62.2 Elements

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

3.9.4.62.2.1 SetPropsetCategoryMappings

The **SetPropsetCategoryMappings** element contains input data for a **SetPropsetCategoryMappings** operation.

```
<xsd:element name="SetPropsetCategoryMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="1" name="CategoryId" type="xsd:long"/>
      <xsd:element minOccurs="1" name="propsets" type="msa:ArrayOfguid"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

CategoryId: The identifier of the crawled property category with which to associate the GUIDs.

propsets: An **ArrayOfguid** that contains the GUIDs that are to be associated with the crawled property category.

3.9.4.62.2.2   SetPropsetCategoryMappingsResponse

The **SetPropsetCategoryMappingsResponse** element contains output data from a
SetPropsetCategoryMappings operation.

```xsd
<xsd:element name="SetPropsetCategoryMappingsResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.62.3   Complex Types

None.

3.9.4.62.4   Simple Types

None.

3.9.4.62.5   Attributes

None.

3.9.4.62.6   Groups

None.

3.9.4.62.7   Attribute Groups

None.

3.9.4.63   SetRefinerConfiguration

The **SetRefinerConfiguration** operation updates the refiner configuration of the managed
property. If the refiner configuration does not exist it is created. This method is applicable only if the
value of the **RefinementEnabled** attribute of the managed property is **true**. This operation is
asynchronous. The operation MUST update the indexConfig.xml, index.cf, FieldProperties.xml,
fixml_mappings.xml and configuration.attributes.xml (see [MS-FSSCFG] section 2).

```wsdl
<wsdl:operation name="SetRefinerConfiguration">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfiguration" message="tns:SchemaService_SetRefinerConfiguration_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfigurationResponse"
message="tns:SchemaService_SetRefinerConfiguration_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfigurationAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_SetRefinerConfiguration_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_SetRefinerConfiguration_OutputMessage** response message.

3.9.4.63.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.63.1.1 SchemaService_SetRefinerConfiguration_InputMessage

The **SchemaService_SetRefinerConfiguration_InputMessage** request message initiates the operation to update the refiner configuration of the managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfiguration
```

The SOAP body MUST contain a **SetRefinerConfiguration** element.

3.9.4.63.1.2 SchemaService_SetRefinerConfiguration_OutputMessage

The **SchemaService_SetRefinerConfiguration_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetRefinerConfiguration_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfigurationResponse
```

The SOAP body MUST contain a **SetRefinerConfigurationResponse** element.

3.9.4.63.1.3 SchemaService_SetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage

The **SchemaService_SetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetRefinerConfiguration_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetRefinerConfigurationAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.63.2 Elements

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

3.9.4.63.2.1 SetRefinerConfiguration

The **SetRefinerConfiguration** element contains input data for a **SetRefinerConfiguration** operation. The input data contains a **RefinerConfigurationDTO**.

```
<xsd:element name="SetRefinerConfiguration">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="Refiner" type="tns:RefinerConfigurationDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ManagedPropertyId: The identifier of the managed property that is associated with the refiner.

Refiner: The **RefinerConfigurationDTO** to set in the managed property.

3.9.4.63.2.2 SetRefinerConfigurationResponse

The **SetRefinerConfigurationResponse** element contains output data from a **SetRefinerConfiguration** operation. The response contains a **RefinerConfigurationDTO**.

```
<xsd:element name="SetRefinerConfigurationResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="SetRefinerConfigurationResult" nillable="true"
type="tns:RefinerConfigurationDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

SetRefinerConfigurationResult: A **RefinerConfigurationDTO** that receives the elements of the refiner configuration.

3.9.4.63.3 Complex Types

None.

3.9.4.63.4 Simple Types

None.

3.9.4.63.5 Attributes

None.

3.9.4.63.6 Groups

None.

3.9.4.63.7 Attribute Groups

None.

3.9.4.64 SetResultFallback

The **SetResultFallback** operation sets a result fallback for a managed property. This method is applicable only if the value of the **SummaryType** that belongs to the managed property is "Dynamic". This operation is asynchronous. This operation MUST update the fsearch.addon ([MS-FSSCFG] section 2.7) and all result.templ configuration files which are in use ([MS-FSQRCFG] section 2.7).

```
<wsdl:operation name="SetResultFallback">
   <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetResultFallback" message="tns:SchemaService_SetResultFallback_InputMessage"/>
   <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ SchemaService/
SetResultFallbackResponse" message="tns:SchemaService_SetResultFallback_OutputMessage"/>
   <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetResultFallbackAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_SetResultFallback_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_SetResultFallback_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_SetResultFallback_OutputMessage** response message.

3.9.4.64.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.64.1.1 SchemaService_SetResultFallback_InputMessage

The **SchemaService_SetResultFallback_InputMessage** request message initiates the operation to set a result fallback for the managed property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/ SetResultFallback
```

The SOAP body MUST contain a **SetResultFallback** element.

3.9.4.64.1.2 SchemaService_SetResultFallback_OutputMessage

The **SchemaService_SetResultFallback_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetResultFallback_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetResultFallbackRes
ponse
```

The SOAP body MUST contain a **SetResultFallbackResponse** element.

3.9.4.64.1.3 SchemaService_SetResultFallback_AdminExceptionWCFFault_FaultMessage

The **SchemaService_SetResultFallback_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_SetResultFallback_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
SetResultFallbackAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.64.2 Elements

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

3.9.4.64.2.1 SetResultFallback

The **SetResultFallback** element contains input data for a **SetResultFallback** operation.

```
<xsd:element name="SetResultFallback">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="ResultFallBackName" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

ManagedPropertyId: The managed property for which to set result fallback.

ResultFallBackName: The name of the result fallback. This value MUST be the name of an existing managed property.

3.9.4.64.2.2 SetResultFallbackResponse

The **SetResultFallbackResponse** element contains result data for a **SetResultFallback** operation.

```
<xsd:element name="SetResultFallbackResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.64.3 Complex Types

None.

3.9.4.64.4 Simple Types

None.

3.9.4.64.5 Attributes

None.

3.9.4.64.6 Groups

None.

3.9.4.64.7 Attribute Groups

None.

3.9.4.65 UpdateCategory

The **UpdateCategory** operation updates settings for the current crawled property category. The changes take effect after new content is processed. This operation MUST update the PropertyCategories.xml file, see [MS-FSPSCFG] section 2.3. If any of the crawled properties associated with this category has the IsMappedToContents value set to a different value than the updated category's MapToContents value, then the PropertyCategories.xml configuration file MUST also be updated.

```
<wsdl:operation name="UpdateCategory">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCategory" message="tns:SchemaService_UpdateCategory_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ SchemaService/
UpdateCategoryResponse" message="tns:SchemaService_UpdateCategory_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCategoryAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateCategory_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateCategory_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateCategory_OutputMessage** response message.

3.9.4.65.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.65.1.1 SchemaService_UpdateCategory_InputMessage

The **SchemaService_UpdateCategory_InputMessage** request message initiates the operation to update settings for the current crawled property category.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateCategory
```

The SOAP body MUST contain a **UpdateCategory** element.

3.9.4.65.1.2 SchemaService_UpdateCategory_OutputMessage

The **SchemaService_UpdateCategory_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateCategory_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCategoryResponse
```

The SOAP body MUST contain an **UpdateCategoryResponse** element.

3.9.4.65.1.3 SchemaService_UpdateCategory_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateCategory_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateCategory_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCategoryAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.65.2 Elements

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

3.9.4.65.2.1 UpdateCategory

The **UpdateCategory** element contains input data for an **UpdateCategory** operation.

```
<xsd:element name="UpdateCategory">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="category" type="tns:CategoryDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

category: A **CategoryDTO** that contains the elements to update.

3.9.4.65.2.2 UpdateCategoryResponse

The **UpdateCategoryResponse** element contains result data for an **UpdateCategory** operation.

```
<xsd:element name="UpdateCategoryResponse">
  <xsd:complexType>
```

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

The element is empty.

3.9.4.65.3 Complex Types

None.

3.9.4.65.4 Simple Types

None.

3.9.4.65.5 Attributes

None.

3.9.4.65.6 Groups

None.

3.9.4.65.7 Attribute Groups

None.

3.9.4.66 UpdateCrawledProperty

The **UpdateCrawledProperty** operation updates a crawled property. If the crawled property has
been mapped into a managed property, then the ManagedProperties.xml configuration file MUST be
updated (see [MS-FSPSCFG] section 2.2). If the crawled property's **IsMappedToContents** value
has a different value than the **MapToContents** value of the crawled property category it is
associated with, then that crawled property MUST be added to the indexed-properties element of
the PropertyCategories.xml (see [MS-FSPSCFG] section 2.3).

```
<wsdl:operation name="UpdateCrawledProperty">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCrawledProperty" message="tns:SchemaService_UpdateCrawledProperty_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCrawledPropertyResponse"
message="tns:SchemaService_UpdateCrawledProperty_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCrawledPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateCrawledProperty_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateCrawledProperty_InputMessage**
request message. When the operation finishes successfully, the schema server MUST respond with a
SchemaService_UpdateCrawledProperty_OutputMessage response message.

3.9.4.66.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.66.1.1 SchemaService_UpdateCrawledProperty_InputMessage

The **SchemaService_UpdateCrawledProperty_InputMessage** request message initiates the operation to update a crawled property.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateCrawledProperty
```

The SOAP body MUST contain an **UpdateCrawledProperty** element.

3.9.4.66.1.2 SchemaService_UpdateCrawledProperty_OutputMessage

The **SchemaService_UpdateCrawledProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateCrawledProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCrawledPropertyResponse
```

The SOAP body MUST contain an **UpdateCrawledPropertyResponse** element.

3.9.4.66.1.3 SchemaService_UpdateCrawledProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateCrawledProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateCrawledProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateCrawledPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.66.2 Elements

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

3.9.4.66.2.1 UpdateCrawledProperty

The **UpdateCrawledProperty** element contains input data for an **UpdateCrawledProperty** operation.

```
<xsd:element name="UpdateCrawledProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="crawledProperty" type="tns:CrawledPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

crawledProperty: A **CrawledPropertyDTO** that contains the elements with which to update the crawled property.

3.9.4.66.2.2   UpdateCrawledPropertyResponse

The **UpdateCrawledPropertyResponse** element contains output data from an **UpdateCrawledProperty** operation.

```
<xsd:element name="UpdateCrawledPropertyResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.66.3   Complex Types

None.

3.9.4.66.4   Simple Types

None.

3.9.4.66.5   Attributes

None.

3.9.4.66.6   Groups

None.

3.9.4.66.7   Attribute Groups

None.

3.9.4.67   UpdateFullTextIndex

The **UpdateFullTextIndex** operation updates a full-text index field asynchronously. This protocol server does not offer any operations that can be used to discover when this operation is finished.

If the update changes the stemming setting on the full-text index field, then the content MUST be reprocessed from the content source (see [MS-FSO] section 2.1.1.4).

This operation MUST update the rank.cf, index.cf, indexConfig.xml and FieldProperties.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="UpdateFullTextIndex">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndex" message="tns:SchemaService_UpdateFullTextIndex_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexResponse" message="tns:SchemaService_UpdateFullTextIndex_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateFullTextIndex_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateFullTextIndex_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateFullTextIndex_OutputMessage** response message.

3.9.4.67.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.67.1.1 SchemaService_UpdateFullTextIndex_InputMessage

The **SchemaService_UpdateFullTextIndex_InputMessage** request message initiates the operation to update a full-text index field asynchronously.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateFullTextIndex
```

The SOAP body MUST contain an **UpdateFullTextIndex** element.

3.9.4.67.1.2 SchemaService_UpdateFullTextIndex_OutputMessage

The **SchemaService_UpdateFullTextIndex_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateFullTextIndex_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexResponse
```

The SOAP body MUST contain an **UpdateFullTextIndexResponse** element.

3.9.4.67.1.3 SchemaService_UpdateFullTextIndex_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateFullTextIndex_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateFullTextIndex_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.67.2 Elements

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

3.9.4.67.2.1 UpdateFullTextIndex

The **UpdateFullTextIndex** element contains input data for an **UpdateFullTextIndex** operation.

```
<xsd:element name="UpdateFullTextIndex">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="fullTextIndex" type="tns:FullTextIndexDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

fullTextIndex: A **FullTextIndexDTO** containing the elements that are used to update the full-text index field.

3.9.4.67.2.2 UpdateFullTextIndexResponse

The **UpdateFullTextIndexResponse** element contains output data from an **UpdateFullTextIndex** operation.

```
<xsd:element name="UpdateFullTextIndexResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.67.3 Complex Types

None.

3.9.4.67.4 Simple Types

None.

3.9.4.67.5 Attributes

None.

3.9.4.67.6 Groups

None.

3.9.4.67.7 Attribute Groups

None.

3.9.4.68 UpdateFullTextIndexRankComponent

The **UpdateFullTextIndexRankComponent** operation updates the full-text index field rank component. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="UpdateFullTextIndexRankComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponent"
message="tns:SchemaService_UpdateFullTextIndexRankComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponentResponse"
message="tns:SchemaService_UpdateFullTextIndexRankComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
ge"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateFullTextIndexRankComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateFullTextIndexRankComponent_OutputMessage** response message.

3.9.4.68.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.68.1.1 SchemaService_UpdateFullTextIndexRankComponent_InputMessage

The **SchemaService_UpdateFullTextIndexRankComponent_InputMessage** request message initiates the operation to update the full-text index field rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponent
```

The SOAP body MUST contain an **UpdateFullTextIndexRankComponent** element.

3.9.4.68.1.2 SchemaService_UpdateFullTextIndexRankComponent_OutputMessage

The **SchemaService_UpdateFullTextIndexRankComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateFullTextIndexRankComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponentResponse
```

The SOAP body MUST contain an **UpdateFullTextIndexRankComponentResponse** element.

3.9.4.68.1.3 SchemaService_UpdateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateFullTextIndexRankComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateFullTextIndexRankComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.68.2 Elements

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

3.9.4.68.2.1 UpdateFullTextIndexRankComponent

The **UpdateFullTextIndexRankComponent** element contains input data for an **UpdateFullTextIndexRankComponent** operation.

```
<xsd:element name="UpdateFullTextIndexRankComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="dto" type="tns:FullTextIndexRankComponentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The rank profile to update.

dto: A **FullTextIndexRankComponentDTO** containing the elements that are used to update the full-text index field rank component.

3.9.4.68.2.2 UpdateFullTextIndexRankComponentResponse

The **UpdateFullTextIndexRankComponentResponse** element contains output data from an **UpdateFullTextIndexRankComponent** operation.

```
<xsd:element name="UpdateFullTextIndexRankComponentResponse">
  <xsd:complexType>
    <xsd:sequence/>
```

```
    </xsd:complexType>
  </xsd:element>
```

The element is empty.

3.9.4.68.3 Complex Types

None.

3.9.4.68.4 Simple Types

None.

3.9.4.68.5 Attributes

None.

3.9.4.68.6 Groups

None.

3.9.4.68.7 Attribute Groups

None.

3.9.4.69 UpdateManagedProperty

The **UpdateManagedProperty** operation updates a managed property asynchronously. This operation requires the content source to be reprocessed by the item processing service for changes to take full effect (see [MS-FSO] section 2.1.1.4).

This operation MUST update the fixml_mappings.xml, index.cf, indexConfig.xml, FieldProperties.xml, summary.cf, summaryclasses.xml, resultspace.xml (see [MS-FSSCFG] section 2) and all result.templ files (see [MS-FSQRCFG] section 2.7). If the sorting setting on the managed property is changed, then the fieldspec.xml file MUST also be updated (see [MS-FSSCFG] section 3.2). If the summary type is changed to or from dynamic, then fsearch.addon and summary.map MUST also be updated (see [MS-FSSCFG] section 2). If the managed property is a integer, float, decimal or datetime, then the maptransform.xml file MUST also be updated (see [MS-FSSCFG] section 2.2).

```
  <wsdl:operation name="UpdateManagedProperty">
    <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedProperty" message="tns:SchemaService_UpdateManagedProperty_InputMessage"/>
    <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyResponse"
message="tns:SchemaService_UpdateManagedProperty_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateManagedProperty_AdminExceptionWCFFault_FaultMessage"/>
  </wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateManagedProperty_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateManagedProperty_OutputMessage** response message.

3.9.4.69.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.69.1.1 SchemaService_UpdateManagedProperty_InputMessage

The **SchemaService_UpdateManagedProperty_InputMessage** request message initiates the operation to update a managed property asynchronously.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedProperty
```

The SOAP body MUST contain an **UpdateManagedProperty** element.

3.9.4.69.1.2 SchemaService_UpdateManagedProperty_OutputMessage

The **SchemaService_UpdateManagedProperty_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateManagedProperty_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyResponse
```

The SOAP body MUST contain a **UpdateManagedPropertyResponse** element.

3.9.4.69.1.3 SchemaService_UpdateManagedProperty_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateManagedProperty_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateManagedProperty_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.69.2 Elements

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

3.9.4.69.2.1 UpdateManagedProperty

The **UpdateManagedProperty** element contains input data for an **UpdateManagedProperty** operation.

```
<xsd:element name="UpdateManagedProperty">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="managedProperty" type="tns:ManagedPropertyDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

managedProperty: A **ManagedPropertyDTO** containing the elements that are used to update the managed property.

3.9.4.69.2.2 UpdateManagedPropertyResponse

The **UpdateManagedPropertyResponse** element contains output data from an **UpdateManagedProperty** operation.

```
<xsd:element name="UpdateManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.69.3 Complex Types

None.

3.9.4.69.4 Simple Types

None.

3.9.4.69.5 Attributes

None.

3.9.4.69.6 Groups

None.

3.9.4.69.7 Attribute Groups

None.

3.9.4.70 UpdateManagedPropertyBoostComponent

The **UpdateManagedPropertyBoostComponent** operation updates a keyword rank component. This operation is asynchronous. This operation MUST update the ManagedPropertyBoosts.xml configuration file (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="UpdateManagedPropertyBoostComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponent"
message="tns:SchemaService_UpdateManagedPropertyBoostComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponentResponse"
message="tns:SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
ssage"/>
</wsdl:operation>
```

The protocol client MUST send a
SchemaService_UpdateManagedPropertyBoostComponent_InputMessage request message.
When the operation finishes successfully, the schema server MUST respond with a
SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage response
message.

3.9.4.70.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.70.1.1 SchemaService_UpdateManagedPropertyBoostComponent_InputMessage

The **SchemaService_UpdateManagedPropertyBoostComponent_InputMessage** request
message initiates the operation to update a keyword rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponent
```

The SOAP body MUST contain an **UpdateManagedPropertyBoostComponent** element.

3.9.4.70.1.2 SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage

The **SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage** response
message is sent in reply to the request that is initiated by the
SchemaService_UpdateManagedPropertyBoostComponent_InputMessage message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponentResponse
```

The SOAP body MUST contain an **UpdateManagedPropertyBoostComponentResponse** element.

3.9.4.70.1.3 SchemaService_UpdateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateManagedPropertyBoostComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateManagedPropertyBoostComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.70.2 Elements

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

3.9.4.70.2.1 UpdateManagedPropertyBoostComponent

The **UpdateManagedPropertyBoostComponent** element contains input data for an **UpdateManagedPropertyBoostComponent** operation.

```
<xsd:element name="UpdateManagedPropertyBoostComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="dto" type="tns:ManagedPropertyBoostComponentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile that contains the keyword rank component.

dto: A **ManagedPropertyBoostComponentDTO** containing the elements that are used to update the keyword rank component.

3.9.4.70.2.2 UpdateManagedPropertyBoostComponentResponse

The **UpdateManagedPropertyBoostComponentResponse** element contains output data from an **UpdateManagedPropertyBoostComponent** operation.

```
<xsd:element name="UpdateManagedPropertyBoostComponentResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.70.3 Complex Types

None.

3.9.4.70.4 Simple Types

None.

3.9.4.70.5 Attributes

None.

3.9.4.70.6 Groups

None.

3.9.4.70.7 Attribute Groups

None.

3.9.4.71 UpdateQualityComponent

The **UpdateQualityComponent** operation updates a quality rank component. This operation is asynchronous, and there is no operation to verify whether it has finished. This operation MUST update the rank.cf and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="UpdateQualityComponent">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponent" message="tns:SchemaService_UpdateQualityComponent_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponentResponse"
message="tns:SchemaService_UpdateQualityComponent_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponentAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateQualityComponent_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateQualityComponent_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateQualityComponent_OutputMessage** response message.

3.9.4.71.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.71.1.1 SchemaService_UpdateQualityComponent_InputMessage

The **SchemaService_UpdateQualityComponent_InputMessage** request message initiates the operation to update a quality rank component.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponent
```

The SOAP body MUST contain a **UpdateQualityComponent** element.

3.9.4.71.1.2 SchemaService_UpdateQualityComponent_OutputMessage

The **SchemaService_UpdateQualityComponent_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateQualityComponent_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponentResponse
```

The SOAP body MUST contain an **UpdateQualityComponentResponse** element.

3.9.4.71.1.3 SchemaService_UpdateQualityComponent_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateQualityComponent_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateQualityComponent_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateQualityComponentAdminExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.71.2 Elements

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

3.9.4.71.2.1 UpdateQualityComponent

The **UpdateQualityComponent** element contains input data for an **UpdateQualityComponent** operation.

```
<xsd:element name="UpdateQualityComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long"/>
      <xsd:element minOccurs="0" name="dto" type="tns:QualityComponentDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

RankProfileId: The identifier of the rank profile to update.

dto: A **QualityComponentDTO** that contains the elements to update.

3.9.4.71.2.2 UpdateQualityComponentResponse

The **UpdateQualityComponentResponse** element contains output data from an **UpdateQualityComponent** operation.

```
<xsd:element name="UpdateQualityComponentResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.71.3 Complex Types

None.

3.9.4.71.4 Simple Types

None.

3.9.4.71.5 Attributes

None.

3.9.4.71.6 Groups

None.

3.9.4.71.7 Attribute Groups

None.

3.9.4.72 UpdateRankProfile

The **UpdateRankProfile** operation updates a rank profile. This operation is asynchronous. This operation MUST update the rank.cf, rankspace.xml and indexConfig.xml configuration files (see [MS-FSSCFG] section 2).

```
<wsdl:operation name="UpdateRankProfile ">
  <wsdl:input
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateRankProfile" message="tns:SchemaService_UpdateRankProfile_InputMessage"/>
  <wsdl:output
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateRankProfileResponse" message="tns:SchemaService_UpdateRankProfile_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/
UpdateRankProfileAdminExceptionWCFFault" name="AdminExceptionWCFFault"
message="tns:SchemaService_UpdateRankProfile_AdminExceptionWCFFault_FaultMessage"/>
</wsdl:operation>
```

The protocol client MUST send a **SchemaService_UpdateRankProfile_InputMessage** request message. When the operation finishes successfully, the schema server MUST respond with a **SchemaService_UpdateRankProfile_OutputMessage** response message.

3.9.4.72.1 Messages

The following WSDL message definitions are specific to this operation.

3.9.4.72.1.1 SchemaService_UpdateRankProfile_InputMessage

The **SchemaService_UpdateRankProfile_InputMessage** request message initiates the operation to update a rank profile.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateRankProfile
```

The SOAP body MUST contain an **UpdateRankProfile** element.

3.9.4.72.1.2 SchemaService_UpdateRankProfile_OutputMessage

The **SchemaService_UpdateRankProfile_OutputMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateRankProfile_InputMessage** message.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.sSharePoint.Search.Extended.Administration/SchemaService/
UpdateRankProfileResponse
```

The SOAP body MUST contain an **UpdateRankProfileResponse** element.

3.9.4.72.1.3 SchemaService_UpdateRankProfile_AdminExceptionWCFFault_FaultMessage

The **SchemaService_UpdateRankProfile_AdminExceptionWCFFault_FaultMessage** response message is sent in reply to the request that is initiated by the **SchemaService_UpdateRankProfile_InputMessage** message. The schema server MUST return this response message when an error occurs.

The SOAP action value of the message MUST be as follows.

```
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateRankProfileAdm
inExceptionWCFFault
```

The SOAP body MUST contain an **AdminExceptionWCF** element.

3.9.4.72.2 Elements

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

3.9.4.72.2.1 UpdateRankProfile

The **UpdateRankProfile** element contains input data for an **UpdateRankProfile** operation.

```xsd
<xsd:element name="UpdateRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="dto" type="tns:RankProfileDTO"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

dto: A **RankProfileDTO** containing the elements that are used to update the rank profile.

3.9.4.72.2.2 UpdateRankProfileResponse

The **UpdateRankProfileResponse** element contains output data from an **UpdateRankProfile** operation.

```xsd
<xsd:element name="UpdateRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence/>
  </xsd:complexType>
</xsd:element>
```

The element is empty.

3.9.4.72.3 Complex Types

None.

3.9.4.72.4 Simple Types

None.

3.9.4.72.5 Attributes

None.

3.9.4.72.6 Groups

None.

3.9.4.72.7 Attribute Groups

None.

3.9.5 Timer Events

None.

3.9.6 Other Local Events

None.

4 Protocol Examples

As described in section 1.4, this protocol uses SOAP message security. However, for clarity, all SOAP requests and responses in this section are shown in clear-text, without SOAP message security.

4.1 Add Spell-Check Exclusion

Several of the **WSDL port types** that were described in section 3 MUST be used to update, distribute, and activate spell-check exclusions in addition to property extraction exclusions and inclusions. This example outlines a common sequence of operations on the different port types.

This section contains two sequence diagrams. The first diagram shows how a protocol client can use the **SpellCheckerService** to add a spell-check exclusion. The second sequence diagram shows how a protocol client can use the **PersistedDictionaryService**, **LinguisticManagerService**, **CompiledDictionaryService**, and the **DeploymentService** to distribute and activate spell-check exclusions as well as property extraction exclusions and inclusions.

The following figure shows how the protocol client uses the **SpellCheckerService** to add a spell-check exclusion. The **SpellCheckerService** internally uses the **PersistedDictionaryService** to persist the changes.
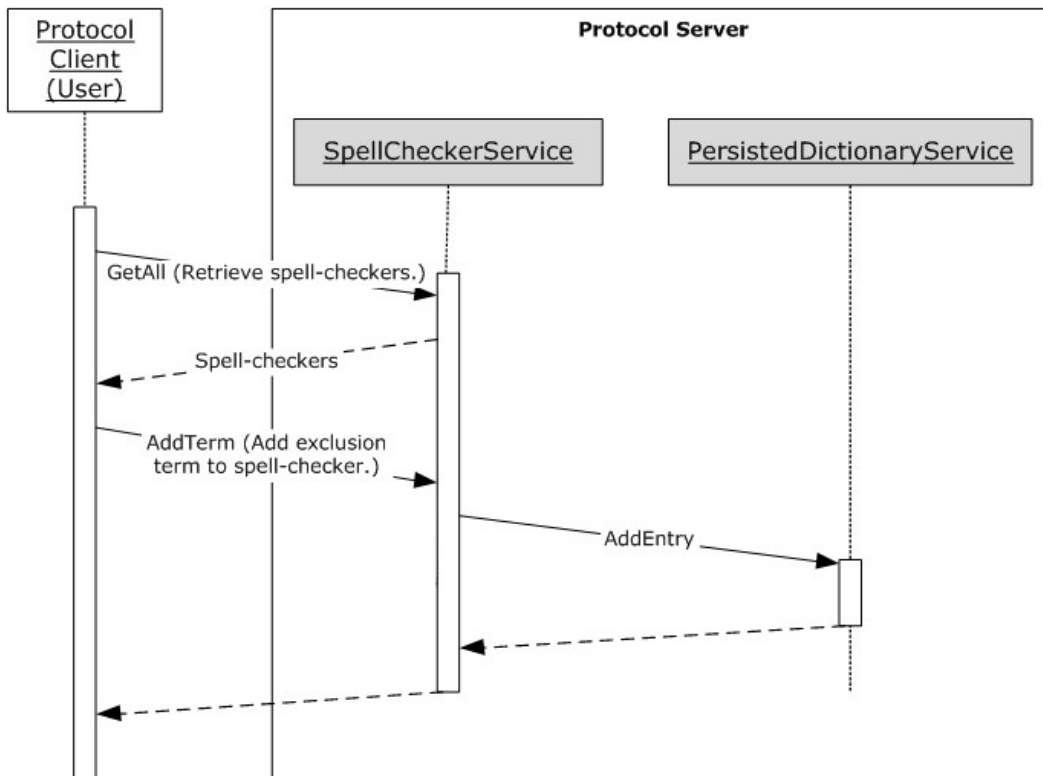
Figure 5: Sequence diagram showing how to add a spell-check exclusion

The following figure shows a typical sequence of operations that is used to distribute and activate spell-check exclusions as well as property extraction exclusions and inclusions. In the figure, the protocol client is typically an automatic job that runs regularly. The protocol client first uses the PersistedDictionaryService to retrieve all persisted dictionaries. The protocol client then loops

through the persisted dictionaries, checking the "dirty" value and the persisted dictionary type. Only persisted dictionaries with the following characteristics are converted into an XML dictionary file representation:

- Persisted dictionaries whose "dirty" value is set to **true** to indicate a change

- Persisted dictionaries of types SPELLCHECKING or ENTITYEXTRACTION

The CompiledDictionaryService server uses Resource Store Protocol, as described in [MS-FSRS], to upload the compiled XML dictionary file to the central location.

Finally, depending on whether **persisted dictionaries** of type SPELLCHECKING or ENTITYEXTRACTION were changed, the protocol client calls **Deploy** to force search system components to download XML dictionary files by using Resource Store Protocol, as described in [MS-FSRS], and to activate the dictionaries that are specified by the XML dictionary files. To perform this operation, the protocol server uses Query and Result Configuration Protocol as described in [MS-FSQRC], and Configuration Middleware Protocol as described in [MS-FSCMW].
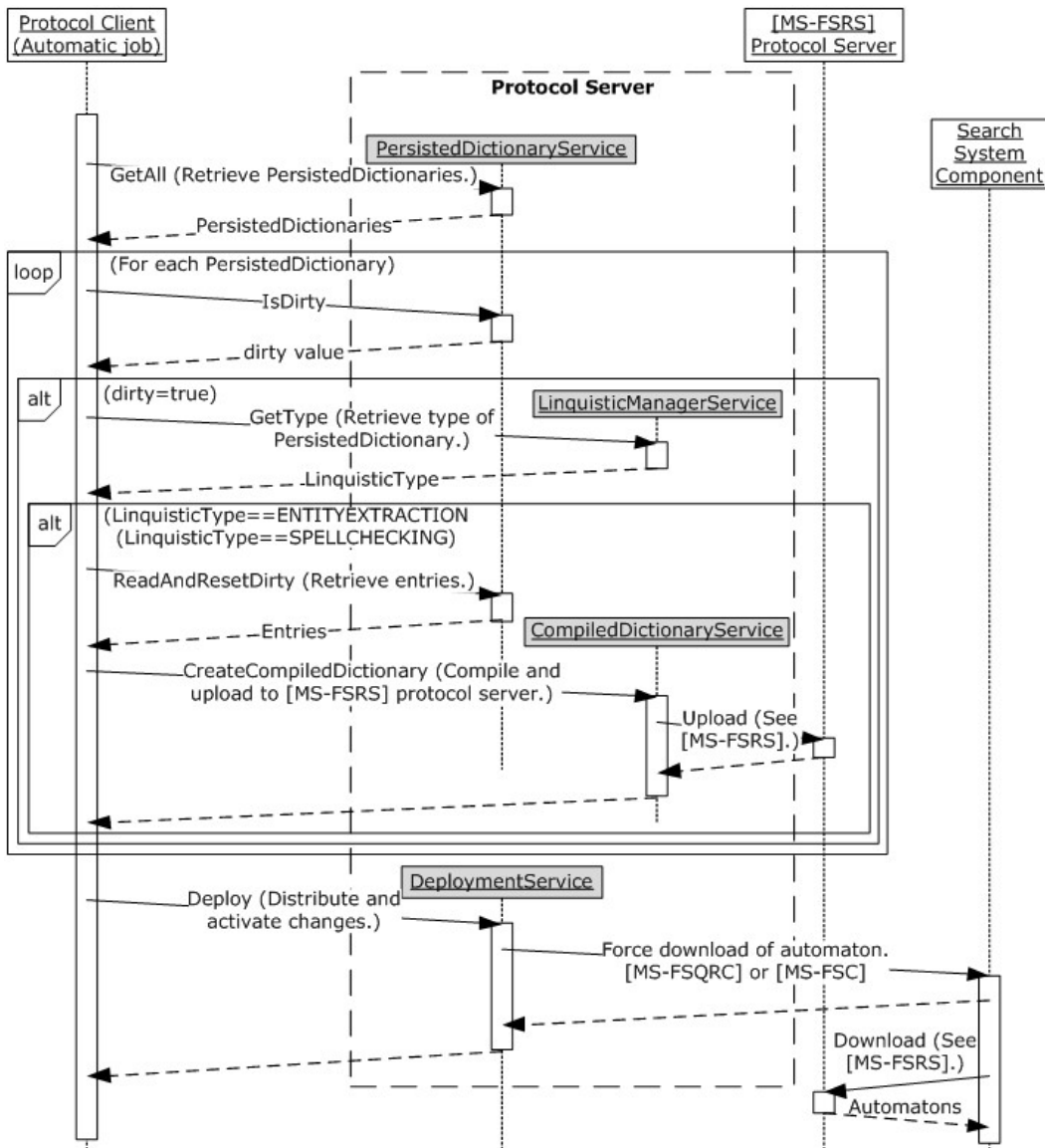
Figure 6: Sequence diagram showing how to distribute and activate spell-check exclusions or property extraction exclusions and inclusions

The following example demonstrates the two first protocol client requests and the protocol server responses from the preceding figure.

4.1.1   GetAll

The protocol client sends the following **GetAll** request to retrieve all persisted dictionaries:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
```

```
      <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDict
ionaryService/GetAll</a:Action>
      <a:MessageID>urn:uuid:aeaa37tba-6774-4171-a759-1c8ed3db8c9d</a:MessageID>
      <a:ReplyTo>
        <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
      </a:ReplyTo>
    </s:Header>
    <s:Body>
      <GetAll xmlns="http://Microsoft.SharePoint.Search.Extended.Administration" />
    </s:Body>
  </s:Envelope>
```

The protocol server responds as follows:

```
  <s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Header>
      <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDict
ionaryService/GetAllResponse</a:Action>
      <a:RelatesTo>urn:uuid:effcb86f-e823-4a62-8407-64cd33f546fb</a:RelatesTo>
      <a:To s:mustUnderstand="1">http://www.w3.org/2005/08/addressing/anonymous</a:To>
    </s:Header>
    <s:Body>
      <GetAllResponse xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
        <GetAllResult xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <b:string>companies_exclusion_any</b:string>
          <b:string>companies_inclusion_any</b:string>
          <b:string>locations_exclusion_any</b:string>
          <b:string>locations_inclusion_any</b:string>
          <b:string>personnames_exclusion_any</b:string>
          <b:string>personnames_inclusion_any</b:string>
          <b:string>spellcheck_exclusion_any</b:string>
          <b:string>spellcheck_exclusion_ar</b:string>
          <b:string>spellcheck_exclusion_cs</b:string>
          <b:string>spellcheck_exclusion_da</b:string>
          <b:string>spellcheck_exclusion_de</b:string>
          <b:string>spellcheck_exclusion_el</b:string>
          <b:string>spellcheck_exclusion_en</b:string>
          <b:string>spellcheck_exclusion_es</b:string>
          <b:string>spellcheck_exclusion_et</b:string>
          <b:string>spellcheck_exclusion_fi</b:string>
          <b:string>spellcheck_exclusion_fr</b:string>
          <b:string>spellcheck_exclusion_he</b:string>
          <b:string>spellcheck_exclusion_hi</b:string>
          <b:string>spellcheck_exclusion_hu</b:string>
          <b:string>spellcheck_exclusion_id</b:string>
          <b:string>spellcheck_exclusion_is</b:string>
          <b:string>spellcheck_exclusion_it</b:string>
          <b:string>spellcheck_exclusion_ko</b:string>
          <b:string>spellcheck_exclusion_lt</b:string>
          <b:string>spellcheck_exclusion_lv</b:string>
          <b:string>spellcheck_exclusion_ms</b:string>
          <b:string>spellcheck_exclusion_nb</b:string>
          <b:string>spellcheck_exclusion_nl</b:string>
          <b:string>spellcheck_exclusion_nn</b:string>
```

```
        <b:string>spellcheck_exclusion_pl</b:string>
        <b:string>spellcheck_exclusion_pt</b:string>
        <b:string>spellcheck_exclusion_ro</b:string>
        <b:string>spellcheck_exclusion_ru</b:string>
        <b:string>spellcheck_exclusion_sc</b:string>
        <b:string>spellcheck_exclusion_sk</b:string>
        <b:string>spellcheck_exclusion_sl</b:string>
        <b:string>spellcheck_exclusion_sr</b:string>
        <b:string>spellcheck_exclusion_sv</b:string>
        <b:string>spellcheck_exclusion_tr</b:string>
        <b:string>spellcheck_exclusion_uk</b:string>
        <b:string>spellcheck_exclusion_ur</b:string>
      </GetAllResult>
    </GetAllResponse>
  </s:Body>
</s:Envelope>
```

4.1.2 IsDirty

The protocol client sends the following **IsDirty** request to check whether a persisted dictionary was updated.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDict
ionaryService/IsDirty</a:Action>
    <a:MessageID>urn:uuid:2f27e00a-80e3-4f54-bee6-be28f120402d</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <IsDirty xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <name>spellcheck_exclusion_any</name>
    </IsDirty>
  </s:Body>
</s:Envelope>
```

The protocol server responds as follows:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDict
ionaryService/IsDirtyResponse</a:Action>
    <a:RelatesTo>urn:uuid:e3b304ab-bad5-4d03-8a92-3a3c79e54029</a:RelatesTo>
    <a:To s:mustUnderstand="1">http://www.w3.org/2005/08/addressing/anonymous</a:To>
  </s:Header>
  <s:Body>
    <IsDirtyResponse xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <IsDirtyResult>false</IsDirtyResult>
    </IsDirtyResponse>
  </s:Body>
```

```
</s:Envelope>
```

4.2 Addition of Keyword-Related Items

The following diagram shows the sequence of events that is required to:

1. Create a new search setting group.

2. Create a keyword in the search setting group.

3. Add a synonym to the keyword.
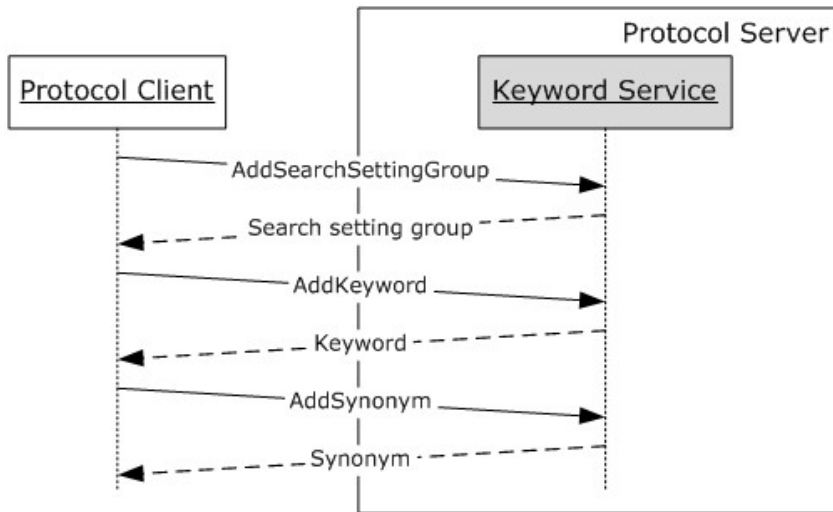
Figure 7: Sequence diagram showing how to add a search setting group, keyword, and synonym

4.2.1 AddSearchSettingGroup

The protocol client sends the following **AddSearchSettingGroup** request to create a search setting group.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/KeywordServic
e/AddSearchSettingGroup</a:Action>
    <a:MessageID>urn:uuid:84f9d69c-e7e5-424e-8d43-cbf8c211ddfc</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <AddSearchSettingGroup
xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <groupName>my test group</groupName>
      <description i:nil="true" xmlns:i="http://www.w3.org/2001/XMLSchema-instance" />
    </AddSearchSettingGroup>
```

```
      </s:Body>
    </s:Envelope>
```

The protocol server responds as follows:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/KeywordServic
e/AddSearchSettingGroupResponse</a:Action>
    <a:RelatesTo>urn:uuid:a5399833-0cb8-48a7-bda6-1b55cbcefb2b</a:RelatesTo>
    <a:To s:mustUnderstand="1">http://www.w3.org/2005/08/addressing/anonymous</a:To>
  </s:Header>
  <s:Body>
    <AddSearchSettingGroupResponse
xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <AddSearchSettingGroupResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <Description i:nil="true">
        </Description>
        <Id>2</Id>
        <LastChanged>2009-07-14T11:10:57.887</LastChanged>
        <Name>my test group</Name>
      </AddSearchSettingGroupResult>
    </AddSearchSettingGroupResponse>
  </s:Body>
</s:Envelope>
```

4.2.2   AddKeyword

The protocol client sends the following **AddKeyword** request to add a keyword.

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/KeywordServic
e/AddKeyword</a:Action>
    <a:MessageID>urn:uuid:37055a05-a855-447a-90a5-5c6ec5fb963f</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>
  <s:Body>
    <AddKeyword xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <keyword xmlns:i="http://www.w3.org/2001/XMLSchema-instance" z:Id="i1"
xmlns:z="http://schemas.microsoft.com/2003/10/Serialization/">
        <Description i:nil="true" />
        <Group>
          <Description i:nil="true" />
          <Id>2</Id>
          <LastChanged>2009-07-14T13:03:00</LastChanged>
          <Name>my test group</Name>
        </Group>
        <Id>0</Id>
        <LastChanged>2009-07-14T13:02:00</LastChanged>
        <Name>testkeyword</Name>
```

```
            <SearchSettings />
          </keyword>
        </AddKeyword>
      </s:Body>
    </s:Envelope>
```

The protocol server responds as follows:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://Microsoft.SharePoint.Search.Extended.Administration/KeywordServic
e/AddKeywordResponse</a:Action>
    <a:RelatesTo>urn:uuid:c286fb17-c5d0-410f-8a59-fa70988e4d66</a:RelatesTo>
    <a:To s:mustUnderstand="1">http://www.w3.org/2005/08/addressing/anonymous</a:To>
  </s:Header>
  <s:Body>
    <AddKeywordResponse xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
      <AddKeywordResult z:Id="i1" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns:z="http://schemas.microsoft.com/2003/10/Serialization/">
        <Description i:nil="true">
        </Description>
        <Group>
          <Description i:nil="true">
          </Description>
          <Id>2</Id>
          <LastChanged>2009-07-14T08:46:15.49</LastChanged>
          <Name>my test group</Name>
        </Group>
        <Id>35</Id>
        <LastChanged>2009-07-14T12:04:36.643</LastChanged>
        <Name>testkeyword</Name>
        <SearchSettings>
        </SearchSettings>
      </AddKeywordResult>
    </AddKeywordResponse>
  </s:Body>
</s:Envelope>
```

4.3 SchemaService Method GetQueryCrawledProperties

The protocol client sends the following **GetQueryCrawledProperties** request to retrieve all crawled
properties.

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:r="http://schemas.xmlsoap.org/ws/2005/02/rm"
xmlns:a="http://www.w3.org/2005/08/addressing">
  <s:Header>
    <r:Sequence s:mustUnderstand="1">
      <r:Identifier>urn:uuid:97700882-7efa-443c-a3d6-359d2962e1fc</r:Identifier>
      <r:MessageNumber>1</r:MessageNumber>
    </r:Sequence>
    <a:Action s:mustUnderstand="1">
http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQueryCrawledPrope
rties
```

```
      </a:Action>
      <a:MessageID>urn:uuid:09de2b27-a28a-4cb9-91b1-e68c050f6808</a:MessageID>
      <a:ReplyTo>
        <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
      </a:ReplyTo>
      <a:To s:mustUnderstand="1"> http://651br3j.ad.fast.no:13256/SchemaService.svc
      </a:To>
    </s:Header>
    <s:Body>
      <GetQueryCrawledProperties
  xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
        <filter>displaytitle</filter>
        <offset>0</offset>
        <count>2147483647</count>
      </GetQueryCrawledProperties>
    </s:Body>
  </s:Envelope>
```

The protocol server responds as follows:

```
  <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
  xmlns:r="http://schemas.xmlsoap.org/ws/2005/02/rm"
   xmlns:a="http://www.w3.org/2005/08/addressing">
    <s:Header>
      <r:Sequence s:mustUnderstand="1">
        <r:Identifier>urn:uuid:f29bf9ff-e93a-4f2f-9c51-910db517be3e</r:Identifier>
        <r:MessageNumber>1</r:MessageNumber>
      </r:Sequence>
      <r:SequenceAcknowledgement>
        <r:Identifier>urn:uuid:08500963-a7a3-4ff2-bd95-3ccb95a8a0e2</r:Identifier>
        <r:AcknowledgementRange Lower="1" Upper="1"/>
        <netrm:BufferRemaining
  xmlns:netrm="http://schemas.microsoft.com/ws/2006/05/rm">8</netrm:BufferRemaining>
      </r:SequenceAcknowledgement>
      <a:Action s:mustUnderstand="1">
  http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQueryCrawledPrope
  rtiesResponse
      </a:Action>
      <a:RelatesTo>urn:uuid:e5dcb6af-9ce6-467b-b9ef-8e88fb8b601d</a:RelatesTo>
    </s:Header>
    <s:Body>
      <GetQueryCrawledPropertiesResponse
  xmlns="http://Microsoft.SharePoint.Search.Extended.Administration">
        <GetQueryCrawledPropertiesResult xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <CrawledPropertyDTO>
            <CategoryName>Basic</CategoryName>
            <Id>16</Id>
            <IsMappedToContents>true</IsMappedToContents>
            <IsMultiValued>false</IsMultiValued>
            <IsNameEnum>false</IsNameEnum>
            <Name>urn:schemas.microsoft.com:fulltextqueryinfo:displaytitle</Name>
            <Propset>0b63e350-9ccc-11d0-bcdb-00805fccce04</Propset>
            <VariantType>31</VariantType>
          </CrawledPropertyDTO>
        </GetQueryCrawledPropertiesResult>
      </GetQueryCrawledPropertiesResponse>
    </s:Body>
```

```
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

This protocol assumes that authentication was performed by the underlying protocols.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in the following sections. Note that all operations of all services are available over both **HTTPS** as well as **HTTP**. This is reflected in two policy elements in the WSDL, *BasicHttpBinding_XXX_policy* and *BasicHttpBinding_XXXSecure_policy*. For simplicity, only the operations for the former binding is shown here. To obtain the WSDL for the secure binding, copy the entire xml fragment beginning with *<wsdl:binding>* replacing the reference to *BasicHttpBinding_XXX_policy* with a reference to *BasicHttpBinding_XXXSecure_policy* in the WSDL for the relevant service.

6.1 KeywordService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="KeywordServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_KeywordService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

  <wsp:Policy wsu:Id="BasicHttpBinding_KeywordServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
        <sp:TransportBinding>
          <wsp:Policy>
            <sp:TransportToken>
             <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
              <wsp:Policy>
                 <sp:Basic256/>
              </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
              <wsp:Policy>
                 <sp:Strict/>
              </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
      </wsp:All>
    </wsp:ExactlyOne>
```

```
      </wsp:Policy>
    <wsdl:types>

      <xsd:schema elementFormDefault="qualified"
        targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
        <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import
          namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

        <xsd:complexType name="PromotedExpressionDTO" mixed="true">
          <xsd:complexContent>
            <xsd:extension base="tns:PromotedItemDTO">
              <xsd:sequence />
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>

        <xsd:complexType name="PromotedItemDTO" mixed="true">
          <xsd:complexContent>
            <xsd:extension base="tns:CommonDTOMembers">
              <xsd:sequence>
                <xsd:element minOccurs="0" name="PromotedItemSpec"
                  nillable="true" type="xsd:string" />
                <xsd:element minOccurs="0" name="PromotedItemType"
                  type="tns:KeywordItemType" />
                <xsd:element minOccurs="0" name="PromotionId" type="xsd:long" />
              </xsd:sequence>
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>

        <xsd:complexType name="CommonDTOMembers" mixed="true">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="Description" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="Group" nillable="true"
              type="tns:SearchSettingGroupDTO" />
            <xsd:element minOccurs="0" name="Id" type="xsd:long" />
            <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
            <xsd:element minOccurs="0" name="Name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
          <xsd:attribute ref="ser:Id" />
          <xsd:attribute ref="ser:Ref" />
        </xsd:complexType>

        <xsd:simpleType name="KeywordItemType">
          <xsd:annotation>
            <xsd:appinfo>
              <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
                xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
            </xsd:appinfo>
          </xsd:annotation>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="Synonym">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
```

```
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="Promotion">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="BestBet">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="FeaturedContent">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="SearchSettingGroup">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="Keyword">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
          <xsd:enumeration value="Context">
            <xsd:annotation>
              <xsd:appinfo>
                <EnumerationValue

xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
              </xsd:appinfo>
            </xsd:annotation>
          </xsd:enumeration>
```

```xml
        <xsd:enumeration value="PromotedDocument">
          <xsd:annotation>
            <xsd:appinfo>
              <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
            </xsd:appinfo>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="PromotedLocation">
          <xsd:annotation>
            <xsd:appinfo>
              <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
            </xsd:appinfo>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="PromotedExpression">
          <xsd:annotation>
            <xsd:appinfo>
              <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
            </xsd:appinfo>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="SearchSetting">
          <xsd:annotation>
            <xsd:appinfo>
              <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
            </xsd:appinfo>
          </xsd:annotation>
        </xsd:enumeration>
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:complexType name="SynonymDTO" mixed="true">
      <xsd:complexContent>
        <xsd:extension base="tns:SearchSettingDTO">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContextId" nillable="true"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="ExpansionType"
              type="tns:SynonymExpansionType" />
            <xsd:element minOccurs="0" name="Term" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>

    <xsd:complexType name="SearchSettingDTO" mixed="true">
      <xsd:complexContent>
        <xsd:extension base="tns:CommonDTOMembers">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="Contexts" nillable="true"
```

```
            type="tns:ArrayOfContextDTO" />
          <xsd:element minOccurs="0" name="ValidFrom" nillable="true"
            type="xsd:dateTime" />
          <xsd:element minOccurs="0" name="ValidTo" nillable="true"
            type="xsd:dateTime" />
          <xsd:element minOccurs="0" name="keyword" nillable="true"
            type="tns:KeywordDTO" />
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:simpleType name="SynonymExpansionType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="OneWay" />
      <xsd:enumeration value="TwoWay" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="PromotedDocumentDTO" mixed="false">
    <xsd:complexContent mixed="false">
      <xsd:extension base="tns:PromotedItemDTO">
        <xsd:sequence />
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="PromotedLocationDTO" mixed="false">
    <xsd:complexContent mixed="false">
      <xsd:extension base="tns:PromotedItemDTO">
        <xsd:sequence />
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="BestBetDTO" mixed="false">
    <xsd:complexContent mixed="false">
      <xsd:extension base="tns:ManagedResultDTO">
        <xsd:sequence />
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="ManagedResultDTO" mixed="true">
    <xsd:complexContent>
      <xsd:extension base="tns:SearchSettingDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="Position" nillable="true"
            type="xsd:short" />
          <xsd:element minOccurs="0" name="Teaser" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="TeaserContentType"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="Uri" nillable="true"
            type="xsd:anyURI" />
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
```

```xml
<xsd:complexType name="FeaturedContentDTO" mixed="false">
  <xsd:complexContent mixed="false">
    <xsd:extension base="tns:ManagedResultDTO">
      <xsd:sequence />
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:complexType name="PromotionDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:SearchSettingDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="BoostValue" type="xsd:int" />
        <xsd:element minOccurs="0" name="PromotedItems"
          nillable="true" type="tns:ArrayOfPromotedItemDTO" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:complexType name="ContextExpressionDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContextId" type="xsd:long" />
        <xsd:element minOccurs="0" name="ExpressionType"
          type="tns:ExpressionTypes" />
        <xsd:element minOccurs="0" name="Parent" nillable="true"
          type="tns:ContextExpressionDTO" />
        <xsd:element minOccurs="0" name="Value" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:simpleType name="ExpressionTypes">
  <xsd:annotation>
    <xsd:appinfo>
      <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
        xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
    </xsd:appinfo>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="AND" />
    <xsd:enumeration value="NOT" />
    <xsd:enumeration value="OR" />
    <xsd:enumeration value="MATCH" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ContextDTO" mixed="true">
  <xsd:complexContent>
    <xsd:extension base="tns:CommonDTOMembers">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContextExpressionRoot"
          nillable="true" type="tns:ContextExpressionDTO" />
      </xsd:sequence>
```

```xsd
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="KeywordDTO" mixed="true">
    <xsd:complexContent>
      <xsd:extension base="tns:CommonDTOMembers">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="SearchSettings"
            nillable="true" type="tns:ArrayOfSearchSettingDTO" />
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="SearchSettingGroupDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" name="Description" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="Id" type="xsd:long" />
      <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
      <xsd:element minOccurs="0" name="Name" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="DetachNamedContextFromSearchSetting">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="searchSettingId"
          type="xsd:long" />
        <xsd:element minOccurs="0" name="contextName"
          nillable="true" type="xsd:string" />
        <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DetachNamedContextFromSearchSettingResponse">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="AdminExceptionWCF">
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="Values" nillable="true"
        type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="AdminExceptionWCF" nillable="true"
    type="tns:AdminExceptionWCF" />

  <xsd:element name="AttachNamedContextToSearchSetting">
    <xsd:complexType>
      <xsd:sequence>
```

```xml
            <xsd:element minOccurs="0" name="searchSettingId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="contextName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AttachNamedContextToSearchSettingResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="AttachNamedContextToSearchSettingResult" nillable="true"
              type="tns:ContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AttachContextToSearchSetting">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="searchSettingId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AttachContextToSearchSettingResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="AttachContextToSearchSettingResult" type="xsd:dateTime" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateContext">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="context" nillable="true"
              type="tns:ContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateContextResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="UpdateContextResult"
              nillable="true" type="tns:ContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DetachContextFromSearchSetting">
        <xsd:complexType>
          <xsd:sequence>
```

```
            <xsd:element minOccurs="0" name="searchSettingId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DetachContextFromSearchSettingResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="DetachContextFromSearchSettingResult" type="xsd:dateTime" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateAggregateContextExpressionRoot">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="context" nillable="true"
              type="tns:ContextDTO" />
            <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateAggregateContextExpressionRootResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="CreateAggregateContextExpressionRootResult" nillable="true"
              type="tns:ContextExpressionDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveContextExpressionSubtree">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveContextExpressionSubtreeResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="RemoveContextExpressionSubtreeResult" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ContainsContextExpression">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
            <xsd:element minOccurs="0" name="nodeId" type="xsd:long" />
          </xsd:sequence>
```

```xsd
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ContainsContextExpressionResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="ContainsContextExpressionResult" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveContextExpressionSubtreeIncludingParent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveContextExpressionSubtreeIncludingParentResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="RemoveContextExpressionSubtreeIncludingParentResult" type="xsd:boolean"
  />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetContextExpressionCount">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetContextExpressionCountResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetContextExpressionCountResult" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAggregateNode">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
            <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAggregateNodeResponse">
        <xsd:complexType>
```

```xsd
      <xsd:sequence>
        <xsd:element minOccurs="0"
          name="AddContextExpressionAggregateNodeResult" nillable="true"
          type="tns:ContextExpressionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AddContextExpressionAtomicNode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
        <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
        <xsd:element minOccurs="0" name="key" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="value" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AddContextExpressionAtomicNodeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0"
          name="AddContextExpressionAtomicNodeResult" nillable="true"
          type="tns:ContextExpressionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetContextExpressionTree">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetContextExpressionTreeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0"
          name="GetContextExpressionTreeResult" nillable="true"
          type="tns:ArrayOfContextExpressionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ArrayOfContextExpressionDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded"
        name="ContextExpressionDTO" nillable="true" type="tns:ContextExpressionDTO" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="RemoveKeywordsByCriteria">
    <xsd:complexType>
```

```
          <xsd:sequence>
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveKeywordsByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountKeywordsByCriteria">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountKeywordsByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CountKeywordsByCriteriaResult"
              type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetKeywordByCriteria">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="keywordName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetKeywordByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetKeywordByCriteriaResult"
              nillable="true" type="tns:KeywordDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetEmptyKeyword">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
```

```
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="GetEmptyKeywordResponse">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEmptyKeywordResult"
               nillable="true" type="tns:KeywordDTO" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="RemoveKeywordByCriteria">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="keywordName"
               nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="RemoveKeywordByCriteriaResponse">
      <xsd:complexType>
         <xsd:sequence />
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="AddKeyword">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="keyword" nillable="true"
               type="tns:KeywordDTO" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="AddKeywordResponse">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="AddKeywordResult"
               nillable="true" type="tns:KeywordDTO" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="GetKeywordPagedResult">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="field" type="tns:KeywordSortField" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
            <xsd:element minOccurs="0" name="filter" nillable="true"
               type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>
```

```xml
<xsd:simpleType name="KeywordSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Term" />
    <xsd:enumeration value="LastChanged" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SortDirection">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Ascending" />
    <xsd:enumeration value="Descending" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="GetKeywordPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetKeywordPagedResultResult"
        nillable="true" type="tns:ArrayOfKeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfKeywordDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="KeywordDTO"
      nillable="true" type="tns:KeywordDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="UpdateKeyword">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keyword" nillable="true"
        type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateKeywordResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateKeywordResult"
        nillable="true" type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetKeywordById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>

</xsd:element>
<xsd:element name="GetKeywordByIdResponse">
  <xsd:complexType>
```

```xml
            <xsd:sequence>
              <xsd:element minOccurs="0" name="GetKeywordByIdResult"
                nillable="true" type="tns:KeywordDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="AddSearchSettingGroup">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="groupName" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="description"
                nillable="true" type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="AddSearchSettingGroupResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="AddSearchSettingGroupResult"
                nillable="true" type="tns:SearchSettingGroupDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetNamedSearchSettingGroup">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="groupName" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetNamedSearchSettingGroupResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0"
                name="GetNamedSearchSettingGroupResult" nillable="true"
                type="tns:SearchSettingGroupDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="UpdateSearchSettingGroup">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="searchSettingGroup"
                nillable="true" type="tns:SearchSettingGroupDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="UpdateSearchSettingGroupResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0"
```

```xml
                 name="UpdateSearchSettingGroupResult" nillable="true"
                 type="tns:SearchSettingGroupDTO" />
           </xsd:sequence>
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveSearchSettingGroups">
        <xsd:complexType>
           <xsd:sequence />
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveSearchSettingGroupsResponse">
        <xsd:complexType>
           <xsd:sequence />
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveSearchSettingGroupById">
        <xsd:complexType>
           <xsd:sequence>
              <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
           </xsd:sequence>
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveSearchSettingGroupByIdResponse">
        <xsd:complexType>
           <xsd:sequence />
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveNamedSearchSettingGroup">
        <xsd:complexType>
           <xsd:sequence>
              <xsd:element minOccurs="0" name="groupName" nillable="true"
                 type="xsd:string" />
           </xsd:sequence>
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="RemoveNamedSearchSettingGroupResponse">
        <xsd:complexType>
           <xsd:sequence />
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="CountSearchSettingGroups">
        <xsd:complexType>
           <xsd:sequence />
        </xsd:complexType>
     </xsd:element>

     <xsd:element name="CountSearchSettingGroupsResponse">
        <xsd:complexType>
           <xsd:sequence>
              <xsd:element minOccurs="0"
                 name="CountSearchSettingGroupsResult" type="xsd:int" />
           </xsd:sequence>
```

```
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetSearchSettingGroups">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetSearchSettingGroupsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetSearchSettingGroupsResult"
              nillable="true" type="tns:ArrayOfSearchSettingGroupDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfSearchSettingGroupDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded"
            name="SearchSettingGroupDTO" nillable="true" type="tns:SearchSettingGroupDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="RemovePromotedItem">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="itemId" type="xsd:long" />
            <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemovePromotedItemResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RemovePromotedItemResult"
              type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountPromotedItems">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="promitionId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountPromotedItemsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CountPromotedItemsResult"
              type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
```

```xml
<xsd:element name="RemovePromotedItems">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemovePromotedItemsResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsPromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="itemId" type="xsd:long" />
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsPromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ContainsPromotedItemResult"
        type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AddPromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotedItem"
        nillable="true" type="tns:PromotedItemDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AddPromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddPromotedItemResult"
        nillable="true" type="tns:PromotedItemDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdatePromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotedItem"
        nillable="true" type="tns:PromotedItemDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

```xsd
<xsd:element name="UpdatePromotedItemResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdatePromotedItemResult"
        nillable="true" type="tns:PromotedItemDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotionPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
      <xsd:element minOccurs="0" name="field"
        type="tns:PromotionSortField" />
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:simpleType name="PromotionSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDdate" />
    <xsd:enumeration value="PromotionSpec">
      <xsd:annotation>
        <xsd:appinfo>
          <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
        </xsd:appinfo>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="GetPromotionPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotionPagedResultResult"
        nillable="true" type="tns:ArrayOfPromotionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotionDTO"
      nillable="true" type="tns:PromotionDTO" />
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="GetPromotedItems">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotedItemsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedItemsResult"
        nillable="true" type="tns:ArrayOfPromotedItemDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotedItemDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedItemDTO"
      nillable="true" type="tns:PromotedItemDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="GetPromotedDocuments">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotedDocumentsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedDocumentsResult"
        nillable="true" type="tns:ArrayOfPromotedDocumentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotedDocumentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="PromotedDocumentDTO" nillable="true" type="tns:PromotedDocumentDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="GetPromotedExpressions">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotedExpressionsResponse">
  <xsd:complexType>
    <xsd:sequence>
```

```xml
        <xsd:element minOccurs="0" name="GetPromotedExpressionsResult"
          nillable="true" type="tns:ArrayOfPromotedExpressionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ArrayOfPromotedExpressionDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded"
        name="PromotedExpressionDTO" nillable="true" type="tns:PromotedExpressionDTO" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="GetPromotedLocations">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetPromotedLocationsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetPromotedLocationsResult"
          nillable="true" type="tns:ArrayOfPromotedLocationDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ArrayOfPromotedLocationDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded"
        name="PromotedLocationDTO" nillable="true" type="tns:PromotedLocationDTO" />
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="GetBestBetPagedResult">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
        <xsd:element minOccurs="0" name="field" type="tns:BestBetSortField" />
        <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
        <xsd:element minOccurs="0" name="offset" type="xsd:int" />
        <xsd:element minOccurs="0" name="count" type="xsd:int" />
        <xsd:element minOccurs="0" name="filter" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="BestBetSortField">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Name" />
      <xsd:enumeration value="LastChanged" />
      <xsd:enumeration value="StartDate" />
      <xsd:enumeration value="EndDate" />
      <xsd:enumeration value="Uri" />
      <xsd:enumeration value="Position" />
```

```xsd
        </xsd:restriction>
      </xsd:simpleType>

      <xsd:element name="GetBestBetPagedResultResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetBestBetPagedResultResult"
              nillable="true" type="tns:ArrayOfBestBetDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfBestBetDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="BestBetDTO"
            nillable="true" type="tns:BestBetDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="GetFeaturedContentPagedResult">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
            <xsd:element minOccurs="0" name="field"
              type="tns:FeaturedContentSortField" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:simpleType name="FeaturedContentSortField">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="Name" />
          <xsd:enumeration value="LastChanged" />
          <xsd:enumeration value="StartDate" />
          <xsd:enumeration value="EndDate" />
          <xsd:enumeration value="Uri" />
          <xsd:enumeration value="Position" />
        </xsd:restriction>
      </xsd:simpleType>

      <xsd:element name="GetFeaturedContentPagedResultResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetFeaturedContentPagedResultResult" nillable="true"
              type="tns:ArrayOfFeaturedContentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfFeaturedContentDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded"
            name="FeaturedContentDTO" nillable="true" type="tns:FeaturedContentDTO" />
```

```xsd
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="AddSynonym">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="synonym" nillable="true"
            type="tns:SynonymDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSynonymResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="AddSynonymResult"
            nillable="true" type="tns:SynonymDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountSearchSettingsByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountSearchSettingsByCriteriaResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="CountSearchSettingsByCriteriaResult" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsSearchSettingByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsSearchSettingByCriteriaResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="ContainsSearchSettingByCriteriaResult" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
```

```xml
        </xsd:element>

        <xsd:element name="ContainsSearchSettingById">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="searchSettingId"
                type="xsd:long" />
              <xsd:element minOccurs="0" name="contextId" nillable="true"
                type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="ContainsSearchSettingByIdResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0"
                name="ContainsSearchSettingByIdResult" type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="RemoveSearchSettingsByCriteria">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
              <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
              <xsd:element minOccurs="0" name="filter" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="RemoveSearchSettingsByCriteriaResponse">
          <xsd:complexType>
            <xsd:sequence />
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="RemoveSearchSetting">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="searchSettingId"
                type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="RemoveSearchSettingResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="RemoveSearchSettingResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="RemoveNamedSearchSettingByType">
          <xsd:complexType>
```

```
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveNamedSearchSettingByTypeResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="RemoveNamedSearchSettingByTypeResult" nillable="true"
            type="xsd:dateTime" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSetting"
            nillable="true" type="tns:SearchSettingDTO" />
          <xsd:element minOccurs="0" name="contextId" nillable="true"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSearchSettingResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="AddSearchSettingResult"
            nillable="true" type="tns:SearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetSearchSettingByNameAndType">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetSearchSettingByNameAndTypeResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetSearchSettingByNameAndTypeResult" nillable="true"
            type="tns:SearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

```xsd
        <xsd:element name="CountSearchSettingsForGroupByCriteria">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
              <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
              <xsd:element minOccurs="0" name="filter" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="CountSearchSettingsForGroupByCriteriaResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0"
                name="CountSearchSettingsForGroupByCriteriaResult" type="xsd:int" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetSynonymPagedResult">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
              <xsd:element minOccurs="0" name="field" type="tns:SynonymSortField" />
              <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
              <xsd:element minOccurs="0" name="offset" type="xsd:int" />
              <xsd:element minOccurs="0" name="count" type="xsd:int" />
              <xsd:element minOccurs="0" name="filter" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:simpleType name="SynonymSortField">
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="Name" />
            <xsd:enumeration value="LastChanged" />
            <xsd:enumeration value="StartDate" />
            <xsd:enumeration value="EndDate" />
            <xsd:enumeration value="Term">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
    xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
                </xsd:appinfo>
              </xsd:annotation>
            </xsd:enumeration>
          </xsd:restriction>
        </xsd:simpleType>

        <xsd:element name="GetSynonymPagedResultResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="GetSynonymPagedResultResult"
                nillable="true" type="tns:ArrayOfSynonymDTO" />
```

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

<xsd:complexType name="ArrayOfSynonymDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded" name="SynonymDTO"
      nillable="true" type="tns:SynonymDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="UpdateSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSetting"
        nillable="true" type="tns:SearchSettingDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateSearchSettingResult"
        nillable="true" type="tns:SearchSettingDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetSearchSettingPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
      <xsd:element minOccurs="0" name="field"
        type="tns:SearchSettingSortField" />
      <xsd:element minOccurs="0" name="ascending" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
      <xsd:element minOccurs="0" name="contextId" nillable="true"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:simpleType name="SearchSettingSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
    <xsd:enumeration value="StartDate" />
    <xsd:enumeration value="EndDate" />
    <xsd:enumeration value="ManagedResultUri" />
    <xsd:enumeration value="ManagedResultPosition" />
    <xsd:enumeration value="PromotionSpec" />
    <xsd:enumeration value="SynonymTerm" />
  </xsd:restriction>
```

```
      </xsd:simpleType>

      <xsd:element name="GetSearchSettingPagedResultResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetSearchSettingPagedResultResult" nillable="true"
              type="tns:ArrayOfSearchSettingDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfSearchSettingDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="SearchSettingDTO"
            nillable="true" type="tns:SearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="RemoveSearchSettingsFromGroupByCriteria">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
            <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveSearchSettingsFromGroupByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountSearchSettingsForContext">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CountSearchSettingsForContextResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="CountSearchSettingsForContextResult" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetNamedContext">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="contextName"
              nillable="true" type="xsd:string" />
```

```
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetNamedContextResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetNamedContextResult"
            nillable="true" type="tns:ContextDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetNamedContextForSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="contextName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="searchSettingId"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetNamedContextForSearchSettingResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetNamedContextForSearchSettingResult" nillable="true"
            type="tns:ContextDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddContext">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="context" nillable="true"
            type="tns:ContextDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddContextResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="AddContextResult"
            nillable="true" type="tns:ContextDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountContextsByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
```

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

    <xsd:element name="CountContextsByCriteriaResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="CountContextsByCriteriaResult"
            type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountContextsForSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingId"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountContextsForSearchSettingResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="CountContextsForSearchSettingResult" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveNamedContext">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="contextName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveNamedContextResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextsByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextsByCriteriaResponse">
      <xsd:complexType>
```

```xml
            <xsd:sequence />
        </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetContextsPagedResult">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
                <xsd:element minOccurs="0" name="field" type="tns:ContextSortField" />
                <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
                <xsd:element minOccurs="0" name="offset" type="xsd:int" />
                <xsd:element minOccurs="0" name="count" type="xsd:int" />
                <xsd:element minOccurs="0" name="filter" nillable="true"
                    type="xsd:string" />
                <xsd:element minOccurs="0" name="searchSettingId"
                    type="xsd:long" />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>

    <xsd:simpleType name="ContextSortField">
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="Name" />
            <xsd:enumeration value="LastChanged" />
        </xsd:restriction>
    </xsd:simpleType>

    <xsd:element name="GetContextsPagedResultResponse">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element minOccurs="0" name="GetContextsPagedResultResult"
                    nillable="true" type="tns:ArrayOfContextDTO" />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfContextDTO">
        <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" name="ContextDTO"
                nillable="true" type="tns:ContextDTO" />
        </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="DetachContextsFromSearchSetting">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element minOccurs="0" name="searchSettingId"
                    type="xsd:long" />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>

    <xsd:element name="DetachContextsFromSearchSettingResponse">
        <xsd:complexType>
            <xsd:sequence />
        </xsd:complexType>
    </xsd:element>

</xsd:schema>
```

```xml
<xsd:schema attributeFormDefault="qualified"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/">
  <xsd:attribute name="Id" type="xsd:ID" />
  <xsd:attribute name="Ref" type="xsd:IDREF" />
</xsd:schema>

<xsd:schema elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <xsd:complexType name="ArrayOfstring">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
        nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="ArrayOfstring" nillable="true"
    type="msa:ArrayOfstring" />
</xsd:schema>

</wsdl:types>

<wsdl:message
  name="KeywordService_DetachContextsFromSearchSetting_InputMessage">
  <wsdl:part name="parameters" element="tns:DetachContextsFromSearchSetting" />
</wsdl:message>
<wsdl:message
  name="KeywordService_DetachContextsFromSearchSetting_OutputMessage">
  <wsdl:part name="parameters"
    element="tns:DetachContextsFromSearchSettingResponse" />
</wsdl:message>
<wsdl:message

 name="KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="KeywordService_DetachNamedContextFromSearchSetting_InputMessage">
  <wsdl:part name="parameters" element="tns:DetachNamedContextFromSearchSetting" />
</wsdl:message>
<wsdl:message
  name="KeywordService_DetachNamedContextFromSearchSetting_OutputMessage">
  <wsdl:part name="parameters"
    element="tns:DetachNamedContextFromSearchSettingResponse" />
</wsdl:message>
<wsdl:message

 name="KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage"
>
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="KeywordService_AttachNamedContextToSearchSetting_InputMessage">
  <wsdl:part name="parameters" element="tns:AttachNamedContextToSearchSetting" />
</wsdl:message>
<wsdl:message
  name="KeywordService_AttachNamedContextToSearchSetting_OutputMessage">
  <wsdl:part name="parameters"
    element="tns:AttachNamedContextToSearchSettingResponse" />
```

```
      </wsdl:message>
      <wsdl:message

  name="KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMessage">
        <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_AttachContextToSearchSetting_InputMessage">
        <wsdl:part name="parameters" element="tns:AttachContextToSearchSetting" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_AttachContextToSearchSetting_OutputMessage">
        <wsdl:part name="parameters" element="tns:AttachContextToSearchSettingResponse" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage">
        <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
      </wsdl:message>
      <wsdl:message name="KeywordService_UpdateContext_InputMessage">
        <wsdl:part name="parameters" element="tns:UpdateContext" />
      </wsdl:message>
      <wsdl:message name="KeywordService_UpdateContext_OutputMessage">
        <wsdl:part name="parameters" element="tns:UpdateContextResponse" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage">
        <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_DetachContextFromSearchSetting_InputMessage">
        <wsdl:part name="parameters" element="tns:DetachContextFromSearchSetting" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_DetachContextFromSearchSetting_OutputMessage">
        <wsdl:part name="parameters" element="tns:DetachContextFromSearchSettingResponse" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage">
        <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_CreateAggregateContextExpressionRoot_InputMessage">
        <wsdl:part name="parameters" element="tns:CreateAggregateContextExpressionRoot" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_CreateAggregateContextExpressionRoot_OutputMessage">
        <wsdl:part name="parameters"
          element="tns:CreateAggregateContextExpressionRootResponse" />
      </wsdl:message>
      <wsdl:message

  name="KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_FaultMessage
  ">
        <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
      </wsdl:message>
      <wsdl:message
        name="KeywordService_RemoveContextExpressionSubtree_InputMessage">
        <wsdl:part name="parameters" element="tns:RemoveContextExpressionSubtree" />
      </wsdl:message>
```

```
   <wsdl:message
     name="KeywordService_RemoveContextExpressionSubtree_OutputMessage">
     <wsdl:part name="parameters" element="tns:RemoveContextExpressionSubtreeResponse" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessage">
     <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
   </wsdl:message>
   <wsdl:message name="KeywordService_ContainsContextExpression_InputMessage">
     <wsdl:part name="parameters" element="tns:ContainsContextExpression" />
   </wsdl:message>
   <wsdl:message name="KeywordService_ContainsContextExpression_OutputMessage">
     <wsdl:part name="parameters" element="tns:ContainsContextExpressionResponse" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage">
     <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage">
     <wsdl:part name="parameters"
       element="tns:RemoveContextExpressionSubtreeIncludingParent" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage">
     <wsdl:part name="parameters"
       element="tns:RemoveContextExpressionSubtreeIncludingParentResponse" />
   </wsdl:message>
   <wsdl:message
 name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFault_Fau
 ltMessage">
     <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
   </wsdl:message>
   <wsdl:message name="KeywordService_GetContextExpressionCount_InputMessage">
     <wsdl:part name="parameters" element="tns:GetContextExpressionCount" />
   </wsdl:message>
   <wsdl:message name="KeywordService_GetContextExpressionCount_OutputMessage">
     <wsdl:part name="parameters" element="tns:GetContextExpressionCountResponse" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage">
     <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_AddContextExpressionAggregateNode_InputMessage">
     <wsdl:part name="parameters" element="tns:AddContextExpressionAggregateNode" />
   </wsdl:message>
   <wsdl:message
     name="KeywordService_AddContextExpressionAggregateNode_OutputMessage">
     <wsdl:part name="parameters"
       element="tns:AddContextExpressionAggregateNodeResponse" />
   </wsdl:message>
   <wsdl:message
 name="KeywordService_AddContextExpressionAggregateNode_AdminExceptionWCFFault_FaultMessage">
     <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
   </wsdl:message>
   <wsdl:message
```

```
    name="KeywordService_AddContextExpressionAtomicNode_InputMessage">
    <wsdl:part name="parameters" element="tns:AddContextExpressionAtomicNode" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAtomicNode_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddContextExpressionAtomicNodeResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionTree_InputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionTree" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionTree_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionTreeResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordsByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordsByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordsByCriteria_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordsByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountKeywordsByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:CountKeywordsByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountKeywordsByCriteria_OutputMessage">
    <wsdl:part name="parameters" element="tns:CountKeywordsByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetKeywordByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:GetKeywordByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetKeywordByCriteria_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetKeywordByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetEmptyKeyword_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEmptyKeyword" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetEmptyKeyword_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEmptyKeywordResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage">
```

```
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordByCriteria_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddKeyword_InputMessage">
    <wsdl:part name="parameters" element="tns:AddKeyword" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddKeyword_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddKeywordResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetKeywordPagedResult_InputMessage">
    <wsdl:part name="parameters" element="tns:GetKeywordPagedResult" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetKeywordPagedResult_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetKeywordPagedResultResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateKeyword_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateKeyword" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateKeyword_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateKeywordResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddSearchSettingGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:AddSearchSettingGroup" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddSearchSettingGroup_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddSearchSettingGroupResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetNamedSearchSettingGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:GetNamedSearchSettingGroup" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetNamedSearchSettingGroup_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetNamedSearchSettingGroupResponse" />
  </wsdl:message>
  <wsdl:message
```

```
                name="KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateSearchSettingGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateSearchSettingGroup" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateSearchSettingGroup_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateSearchSettingGroupResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveSearchSettingGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveSearchSettingGroups" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveSearchSettingGroups_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveSearchSettingGroupsResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingGroupById_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveSearchSettingGroupById" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingGroupById_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveSearchSettingGroupByIdResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingGroupById_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveNamedSearchSettingGroup_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveNamedSearchSettingGroup" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveNamedSearchSettingGroup_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveNamedSearchSettingGroupResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountSearchSettingGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:CountSearchSettingGroups" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountSearchSettingGroups_OutputMessage">
    <wsdl:part name="parameters" element="tns:CountSearchSettingGroupsResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingGroups_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetSearchSettingGroups_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSearchSettingGroups" />
```

```
    </wsdl:message>
    <wsdl:message name="KeywordService_GetSearchSettingGroups_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetSearchSettingGroupsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemovePromotedItem_InputMessage">
      <wsdl:part name="parameters" element="tns:RemovePromotedItem" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemovePromotedItem_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemovePromotedItemResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_CountPromotedItems_InputMessage">
      <wsdl:part name="parameters" element="tns:CountPromotedItems" />
    </wsdl:message>
    <wsdl:message name="KeywordService_CountPromotedItems_OutputMessage">
      <wsdl:part name="parameters" element="tns:CountPromotedItemsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemovePromotedItems_InputMessage">
      <wsdl:part name="parameters" element="tns:RemovePromotedItems" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemovePromotedItems_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemovePromotedItemsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_ContainsPromotedItem_InputMessage">
      <wsdl:part name="parameters" element="tns:ContainsPromotedItem" />
    </wsdl:message>
    <wsdl:message name="KeywordService_ContainsPromotedItem_OutputMessage">
      <wsdl:part name="parameters" element="tns:ContainsPromotedItemResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_AddPromotedItem_InputMessage">
      <wsdl:part name="parameters" element="tns:AddPromotedItem" />
    </wsdl:message>
    <wsdl:message name="KeywordService_AddPromotedItem_OutputMessage">
      <wsdl:part name="parameters" element="tns:AddPromotedItemResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_UpdatePromotedItem_InputMessage">
```

```
      <wsdl:part name="parameters" element="tns:UpdatePromotedItem" />
    </wsdl:message>
    <wsdl:message name="KeywordService_UpdatePromotedItem_OutputMessage">
      <wsdl:part name="parameters" element="tns:UpdatePromotedItemResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotionPagedResult_InputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotionPagedResult" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotionPagedResult_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotionPagedResultResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedItems_InputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedItems" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedItems_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedItemsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetPromotedItems_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedDocuments_InputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedDocuments" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedDocuments_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedDocumentsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedExpressions_InputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedExpressions" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedExpressions_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedExpressionsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedLocations_InputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedLocations" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetPromotedLocations_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetPromotedLocationsResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
```

```
<wsdl:message name="KeywordService_GetBestBetPagedResult_InputMessage">
  <wsdl:part name="parameters" element="tns:GetBestBetPagedResult" />
</wsdl:message>
<wsdl:message name="KeywordService_GetBestBetPagedResult_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetBestBetPagedResultResponse" />
</wsdl:message>
<wsdl:message
  name="KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="KeywordService_GetFeaturedContentPagedResult_InputMessage">
  <wsdl:part name="parameters" element="tns:GetFeaturedContentPagedResult" />
</wsdl:message>
<wsdl:message
  name="KeywordService_GetFeaturedContentPagedResult_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetFeaturedContentPagedResultResponse" />
</wsdl:message>
<wsdl:message
  name="KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="KeywordService_AddSynonym_InputMessage">
  <wsdl:part name="parameters" element="tns:AddSynonym" />
</wsdl:message>
<wsdl:message name="KeywordService_AddSynonym_OutputMessage">
  <wsdl:part name="parameters" element="tns:AddSynonymResponse" />
</wsdl:message>
<wsdl:message
  name="KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="KeywordService_CountSearchSettingsByCriteria_InputMessage">
  <wsdl:part name="parameters" element="tns:CountSearchSettingsByCriteria" />
</wsdl:message>
<wsdl:message
  name="KeywordService_CountSearchSettingsByCriteria_OutputMessage">
  <wsdl:part name="parameters" element="tns:CountSearchSettingsByCriteriaResponse" />
</wsdl:message>
<wsdl:message
  name="KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="KeywordService_ContainsSearchSettingByCriteria_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsSearchSettingByCriteria" />
</wsdl:message>
<wsdl:message
  name="KeywordService_ContainsSearchSettingByCriteria_OutputMessage">
  <wsdl:part name="parameters"
    element="tns:ContainsSearchSettingByCriteriaResponse" />
</wsdl:message>
<wsdl:message
  name="KeywordService_ContainsSearchSettingByCriteria_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="KeywordService_ContainsSearchSettingById_InputMessage">
```

```
      <wsdl:part name="parameters" element="tns:ContainsSearchSettingById" />
    </wsdl:message>
    <wsdl:message name="KeywordService_ContainsSearchSettingById_OutputMessage">
      <wsdl:part name="parameters" element="tns:ContainsSearchSettingByIdResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveSearchSettingsByCriteria_InputMessage">
      <wsdl:part name="parameters" element="tns:RemoveSearchSettingsByCriteria" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveSearchSettingsByCriteria_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveSearchSettingsByCriteriaResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveSearchSetting_InputMessage">
      <wsdl:part name="parameters" element="tns:RemoveSearchSetting" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveSearchSetting_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveSearchSettingResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveNamedSearchSettingByType_InputMessage">
      <wsdl:part name="parameters" element="tns:RemoveNamedSearchSettingByType" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveNamedSearchSettingByType_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveNamedSearchSettingByTypeResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_AddSearchSetting_InputMessage">
      <wsdl:part name="parameters" element="tns:AddSearchSetting" />
    </wsdl:message>
    <wsdl:message name="KeywordService_AddSearchSetting_OutputMessage">
      <wsdl:part name="parameters" element="tns:AddSearchSettingResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetSearchSettingByNameAndType_InputMessage">
      <wsdl:part name="parameters" element="tns:GetSearchSettingByNameAndType" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetSearchSettingByNameAndType_OutputMessage">
```

```
    <wsdl:part name="parameters" element="tns:GetSearchSettingByNameAndTypeResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:CountSearchSettingsForGroupByCriteria" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingsForGroupByCriteria_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:CountSearchSettingsForGroupByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message

name="KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_FaultMessag
e">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetSynonymPagedResult_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonymPagedResult" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetSynonymPagedResult_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSynonymPagedResultResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateSearchSetting" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateSearchSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateSearchSettingResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetSearchSettingPagedResult_InputMessage">
    <wsdl:part name="parameters" element="tns:GetSearchSettingPagedResult" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetSearchSettingPagedResult_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetSearchSettingPagedResultResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage">
    <wsdl:part name="parameters"
      element="tns:RemoveSearchSettingsFromGroupByCriteria" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage">
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```
    <wsdl:part name="parameters"
      element="tns:RemoveSearchSettingsFromGroupByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message

 name="KeywordService_RemoveSearchSettingsFromGroupByCriteria_AdminExceptionWCFFault_FaultMess
 age">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingsForContext_InputMessage">
    <wsdl:part name="parameters" element="tns:CountSearchSettingsForContext" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingsForContext_OutputMessage">
    <wsdl:part name="parameters" element="tns:CountSearchSettingsForContextResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetNamedContext_InputMessage">
    <wsdl:part name="parameters" element="tns:GetNamedContext" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetNamedContext_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetNamedContextResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetNamedContextForSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:GetNamedContextForSearchSetting" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetNamedContextForSearchSetting_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:GetNamedContextForSearchSettingResponse" />
  </wsdl:message>
  <wsdl:message

 name="KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddContext_InputMessage">
    <wsdl:part name="parameters" element="tns:AddContext" />
  </wsdl:message>
  <wsdl:message name="KeywordService_AddContext_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddContextResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountContextsByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:CountContextsByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_CountContextsByCriteria_OutputMessage">
```

```
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        </wsdl:message>
        <wsdl:message
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          <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_CountContextsForSearchSetting_InputMessage">
          <wsdl:part name="parameters" element="tns:CountContextsForSearchSetting" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_CountContextsForSearchSetting_OutputMessage">
          <wsdl:part name="parameters" element="tns:CountContextsForSearchSettingResponse" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage">
          <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
        </wsdl:message>
        <wsdl:message name="KeywordService_RemoveNamedContext_InputMessage">
          <wsdl:part name="parameters" element="tns:RemoveNamedContext" />
        </wsdl:message>
        <wsdl:message name="KeywordService_RemoveNamedContext_OutputMessage">
          <wsdl:part name="parameters" element="tns:RemoveNamedContextResponse" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage">
          <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
        </wsdl:message>
        <wsdl:message name="KeywordService_RemoveContextsByCriteria_InputMessage">
          <wsdl:part name="parameters" element="tns:RemoveContextsByCriteria" />
        </wsdl:message>
        <wsdl:message name="KeywordService_RemoveContextsByCriteria_OutputMessage">
          <wsdl:part name="parameters" element="tns:RemoveContextsByCriteriaResponse" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage">
          <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
        </wsdl:message>
        <wsdl:message name="KeywordService_GetContextsPagedResult_InputMessage">
          <wsdl:part name="parameters" element="tns:GetContextsPagedResult" />
        </wsdl:message>
        <wsdl:message name="KeywordService_GetContextsPagedResult_OutputMessage">
          <wsdl:part name="parameters" element="tns:GetContextsPagedResultResponse" />
        </wsdl:message>
        <wsdl:message
          name="KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage">
          <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
        </wsdl:message>

        <wsdl:portType name="KeywordService">
          <wsdl:operation name="DetachNamedContextFromSearchSetting">
            <wsdl:input

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
     NamedContextFromSearchSetting"
              message="tns:KeywordService_DetachNamedContextFromSearchSetting_InputMessage" />
            <wsdl:output
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
NamedContextFromSearchSettingResponse"
        message="tns:KeywordService_DetachNamedContextFromSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
NamedContextFromSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultM
essage" />
    </wsdl:operation>
    <wsdl:operation name="AttachNamedContextToSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSetting"
        message="tns:KeywordService_AttachNamedContextToSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSettingResponse"
        message="tns:KeywordService_AttachNamedContextToSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
NamedContextToSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMes
sage" />
    </wsdl:operation>
    <wsdl:operation name="AttachContextToSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSetting"
        message="tns:KeywordService_AttachContextToSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingResponse"
        message="tns:KeywordService_AttachContextToSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="UpdateContext">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
Context"
        message="tns:KeywordService_UpdateContext_InputMessage" />
      <wsdl:output
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```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextResponse"
        message="tns:KeywordService_UpdateContext_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DetachContextFromSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSetting"
        message="tns:KeywordService_DetachContextFromSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingResponse"
        message="tns:KeywordService_DetachContextFromSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="CreateAggregateContextExpressionRoot">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRoot"
        message="tns:KeywordService_CreateAggregateContextExpressionRoot_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootResponse"
        message="tns:KeywordService_CreateAggregateContextExpressionRoot_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_Fault
Message" />
    </wsdl:operation>
    <wsdl:operation name="RemoveContextExpressionSubtree">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtree"
        message="tns:KeywordService_RemoveContextExpressionSubtree_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeResponse"
```

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                  message="tns:KeywordService_RemoveContextExpressionSubtree_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="ContainsContextExpression">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpression"
        message="tns:KeywordService_ContainsContextExpression_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionResponse"
        message="tns:KeywordService_ContainsContextExpression_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveContextExpressionSubtreeIncludingParent">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParent"

message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParentResponse"

message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParentAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFa
ult_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetContextExpressionCount">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCount"
        message="tns:KeywordService_GetContextExpressionCount_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountResponse"
```

```
                message="tns:KeywordService_GetContextExpressionCount_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

message="tns:KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="AddContextExpressionAggregateNode">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNode"
            message="tns:KeywordService_AddContextExpressionAggregateNode_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeResponse"
            message="tns:KeywordService_AddContextExpressionAggregateNode_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

message="tns:KeywordService_AddContextExpressionAggregateNode_AdminExceptionWCFFault_FaultMes
sage" />
        </wsdl:operation>
        <wsdl:operation name="AddContextExpressionAtomicNode">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNode"
            message="tns:KeywordService_AddContextExpressionAtomicNode_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeResponse"
            message="tns:KeywordService_AddContextExpressionAtomicNode_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

message="tns:KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessag
e" />
        </wsdl:operation>
        <wsdl:operation name="GetContextExpressionTree">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTree"
            message="tns:KeywordService_GetContextExpressionTree_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTreeResponse"
            message="tns:KeywordService_GetContextExpressionTree_OutputMessage" />
          <wsdl:fault
```

```
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textExpressionTreeAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"

message="tns:KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="RemoveKeywordsByCriteria">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteria"
                message="tns:KeywordService_RemoveKeywordsByCriteria_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaResponse"
                message="tns:KeywordService_RemoveKeywordsByCriteria_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="CountKeywordsByCriteria">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteria"
                message="tns:KeywordService_CountKeywordsByCriteria_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaResponse"
                message="tns:KeywordService_CountKeywordsByCriteria_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"

message="tns:KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetKeywordByCriteria">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteria"
                message="tns:KeywordService_GetKeywordByCriteria_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaResponse"
                message="tns:KeywordService_GetKeywordByCriteria_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"
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```
                    message="tns:KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveKeywordByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteria"
        message="tns:KeywordService_RemoveKeywordByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaResponse"
        message="tns:KeywordService_RemoveKeywordByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddKeyword">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
word"
        message="tns:KeywordService_AddKeyword_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
wordResponse"
        message="tns:KeywordService_AddKeyword_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
wordAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetKeywordPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResult"
        message="tns:KeywordService_GetKeywordPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResultResponse"
        message="tns:KeywordService_GetKeywordPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="UpdateKeyword">
      <wsdl:input
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     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
     Keyword"
           message="tns:KeywordService_UpdateKeyword_InputMessage" />
         <wsdl:output

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
     KeywordResponse"
           message="tns:KeywordService_UpdateKeyword_OutputMessage" />
         <wsdl:fault

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
     KeywordAdminExceptionWCFFault"
           name="AdminExceptionWCFFault"
           message="tns:KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage" />
       </wsdl:operation>
       <wsdl:operation name="AddSearchSettingGroup">
         <wsdl:input

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
     rchSettingGroup"
           message="tns:KeywordService_AddSearchSettingGroup_InputMessage" />
         <wsdl:output

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
     rchSettingGroupResponse"
           message="tns:KeywordService_AddSearchSettingGroup_OutputMessage" />
         <wsdl:fault

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
     rchSettingGroupAdminExceptionWCFFault"
           name="AdminExceptionWCFFault"

     message="tns:KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
       </wsdl:operation>
       <wsdl:operation name="GetNamedSearchSettingGroup">
         <wsdl:input

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     edSearchSettingGroup"
           message="tns:KeywordService_GetNamedSearchSettingGroup_InputMessage" />
         <wsdl:output

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
     edSearchSettingGroupResponse"
           message="tns:KeywordService_GetNamedSearchSettingGroup_OutputMessage" />
         <wsdl:fault

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
     edSearchSettingGroupAdminExceptionWCFFault"
           name="AdminExceptionWCFFault"

     message="tns:KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage"
     />
       </wsdl:operation>
       <wsdl:operation name="UpdateSearchSettingGroup">
         <wsdl:input

     wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
     SearchSettingGroup"
           message="tns:KeywordService_UpdateSearchSettingGroup_InputMessage" />
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            <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupResponse"
        message="tns:KeywordService_UpdateSearchSettingGroup_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingGroups">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroups"
        message="tns:KeywordService_RemoveSearchSettingGroups_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsResponse"
        message="tns:KeywordService_RemoveSearchSettingGroups_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingGroupById">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupById"
        message="tns:KeywordService_RemoveSearchSettingGroupById_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupByIdResponse"
        message="tns:KeywordService_RemoveSearchSettingGroupById_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupByIdAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveSearchSettingGroupById_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveNamedSearchSettingGroup">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingGroup"
        message="tns:KeywordService_RemoveNamedSearchSettingGroup_InputMessage" />
      <wsdl:output
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NamedSearchSettingGroupResponse"
          message="tns:KeywordService_RemoveNamedSearchSettingGroup_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingGroupAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage
" />
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingGroups">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroups"
          message="tns:KeywordService_CountSearchSettingGroups_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroupsResponse"
          message="tns:KeywordService_CountSearchSettingGroups_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingGroupsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_CountSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetSearchSettingGroups">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroups"
          message="tns:KeywordService_GetSearchSettingGroups_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsResponse"
          message="tns:KeywordService_GetSearchSettingGroups_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemovePromotedItem">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItem"
          message="tns:KeywordService_RemovePromotedItem_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemResponse"
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```
                  message="tns:KeywordService_RemovePromotedItem_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="CountPromotedItems">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItems"
          message="tns:KeywordService_CountPromotedItems_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsResponse"
          message="tns:KeywordService_CountPromotedItems_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="RemovePromotedItems">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItems"
          message="tns:KeywordService_RemovePromotedItems_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsResponse"
          message="tns:KeywordService_RemovePromotedItems_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="ContainsPromotedItem">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItem"
          message="tns:KeywordService_ContainsPromotedItem_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItemResponse"
          message="tns:KeywordService_ContainsPromotedItem_OutputMessage" />
        <wsdl:fault
```

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      nsPromotedItemAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage"
      />
          </wsdl:operation>
          <wsdl:operation name="AddPromotedItem">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
      motedItem"
            message="tns:KeywordService_AddPromotedItem_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
      motedItemResponse"
            message="tns:KeywordService_AddPromotedItem_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
      motedItemAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="UpdatePromotedItem">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
      PromotedItem"
            message="tns:KeywordService_UpdatePromotedItem_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
      PromotedItemResponse"
            message="tns:KeywordService_UpdatePromotedItem_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
      PromotedItemAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage"
      />
          </wsdl:operation>
          <wsdl:operation name="GetPromotionPagedResult">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
      motionPagedResult"
            message="tns:KeywordService_GetPromotionPagedResult_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
      motionPagedResultResponse"
            message="tns:KeywordService_GetPromotionPagedResult_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
      motionPagedResultAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
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       message="tns:KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPromotedItems">
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItems"
        message="tns:KeywordService_GetPromotedItems_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsResponse"
        message="tns:KeywordService_GetPromotedItems_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetPromotedItems_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPromotedDocuments">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocuments"
        message="tns:KeywordService_GetPromotedDocuments_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocumentsResponse"
        message="tns:KeywordService_GetPromotedDocuments_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocumentsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetPromotedExpressions">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressions"
        message="tns:KeywordService_GetPromotedExpressions_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsResponse"
        message="tns:KeywordService_GetPromotedExpressions_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPromotedLocations">
      <wsdl:input
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocations"
        message="tns:KeywordService_GetPromotedLocations_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsResponse"
        message="tns:KeywordService_GetPromotedLocations_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetBestBetPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResult"
        message="tns:KeywordService_GetBestBetPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultResponse"
        message="tns:KeywordService_GetBestBetPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetFeaturedContentPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResult"
        message="tns:KeywordService_GetFeaturedContentPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultResponse"
        message="tns:KeywordService_GetFeaturedContentPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage
" />
    </wsdl:operation>
    <wsdl:operation name="AddSynonym">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onym"
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        message="tns:KeywordService_AddSynonym_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymResponse"
        message="tns:KeywordService_AddSynonym_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CountSearchSettingsByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteria"
        message="tns:KeywordService_CountSearchSettingsByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaResponse"
        message="tns:KeywordService_CountSearchSettingsByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage
" />
    </wsdl:operation>
    <wsdl:operation name="ContainsSearchSettingByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteria"
        message="tns:KeywordService_ContainsSearchSettingByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteriaResponse"
        message="tns:KeywordService_ContainsSearchSettingByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_ContainsSearchSettingByCriteria_AdminExceptionWCFFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="ContainsSearchSettingById">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingById"
        message="tns:KeywordService_ContainsSearchSettingById_InputMessage" />
      <wsdl:output
```

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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByIdResponse"
        message="tns:KeywordService_ContainsSearchSettingById_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsSearchSettingByIdAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingsByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteria"
        message="tns:KeywordService_RemoveSearchSettingsByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteriaResponse"
        message="tns:KeywordService_RemoveSearchSettingsByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSetting"
        message="tns:KeywordService_RemoveSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingResponse"
        message="tns:KeywordService_RemoveSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveNamedSearchSettingByType">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByType"
        message="tns:KeywordService_RemoveNamedSearchSettingByType_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByTypeResponse"
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```
            message="tns:KeywordService_RemoveNamedSearchSettingByType_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  NamedSearchSettingByTypeAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault_FaultMessag
  e" />
    </wsdl:operation>
    <wsdl:operation name="AddSearchSetting">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
  rchSetting"
          message="tns:KeywordService_AddSearchSetting_InputMessage" />
      <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
  rchSettingResponse"
          message="tns:KeywordService_AddSearchSetting_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
  rchSettingAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSearchSettingByNameAndType">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
  rchSettingByNameAndType"
          message="tns:KeywordService_GetSearchSettingByNameAndType_InputMessage" />
      <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
  rchSettingByNameAndTypeResponse"
          message="tns:KeywordService_GetSearchSettingByNameAndType_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
  rchSettingByNameAndTypeAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_FaultMessage
  " />
    </wsdl:operation>
    <wsdl:operation name="CountSearchSettingsForGroupByCriteria">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
  earchSettingsForGroupByCriteria"
          message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage" />
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  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
  earchSettingsForGroupByCriteriaResponse"
          message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_OutputMessage" />
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```

```
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earchSettingsForGroupByCriteriaAdminExceptionWCFFault"
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message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_Faul
tMessage" />
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      <wsdl:operation name="GetSynonymPagedResult">
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onymPagedResult"
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultResponse"
          message="tns:KeywordService_GetSynonymPagedResult_OutputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="UpdateSearchSetting">
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          message="tns:KeywordService_UpdateSearchSetting_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingResponse"
          message="tns:KeywordService_UpdateSearchSetting_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
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      <wsdl:operation name="GetSearchSettingPagedResult">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResult"
          message="tns:KeywordService_GetSearchSettingPagedResult_InputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResultResponse"
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        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
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              name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_FaultMessage"
/>
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      <wsdl:operation name="RemoveSearchSettingsFromGroupByCriteria">
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SearchSettingsFromGroupByCriteria"
          message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaResponse"
          message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_AdminExceptionWCFFault_Fa
ultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetEmptyKeyword">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeyword"
          message="tns:KeywordService_GetEmptyKeyword_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeywordResponse"
          message="tns:KeywordService_GetEmptyKeyword_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeywordAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingsForContext">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContext"
          message="tns:KeywordService_CountSearchSettingsForContext_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContextResponse"
          message="tns:KeywordService_CountSearchSettingsForContext_OutputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForContextAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
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```
message="tns:KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage
" />
    </wsdl:operation>
    <wsdl:operation name="GetNamedContext">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContext"
        message="tns:KeywordService_GetNamedContext_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextResponse"
        message="tns:KeywordService_GetNamedContext_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetNamedContextForSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextForSearchSetting"
        message="tns:KeywordService_GetNamedContextForSearchSetting_InputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextForSearchSettingResponse"
        message="tns:KeywordService_GetNamedContextForSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edContextForSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="AddContext">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
text"
        message="tns:KeywordService_AddContext_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textResponse"
        message="tns:KeywordService_AddContext_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CountContextsByCriteria">
```

```
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteria"
          message="tns:KeywordService_CountContextsByCriteria_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteriaResponse"
          message="tns:KeywordService_CountContextsByCriteria_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsByCriteriaAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CountContextsForSearchSetting">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSetting"
          message="tns:KeywordService_CountContextsForSearchSetting_InputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSettingResponse"
          message="tns:KeywordService_CountContextsForSearchSetting_OutputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
ontextsForSearchSettingAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage
" />
      </wsdl:operation>
      <wsdl:operation name="RemoveNamedContext">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContext"
          message="tns:KeywordService_RemoveNamedContext_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextResponse"
          message="tns:KeywordService_RemoveNamedContext_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="RemoveContextsByCriteria">
        <wsdl:input
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteria"
        message="tns:KeywordService_RemoveContextsByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteriaResponse"
        message="tns:KeywordService_RemoveContextsByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetContextsPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResult"
        message="tns:KeywordService_GetContextsPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResultResponse"
        message="tns:KeywordService_GetContextsPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textsPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DetachContextsFromSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSetting"
        message="tns:KeywordService_DetachContextsFromSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSettingResponse"
        message="tns:KeywordService_DetachContextsFromSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextsFromSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessa
ge" />
    </wsdl:operation>
  </wsdl:portType>
<wsdl:binding name="BasicHttpBinding_KeywordService" type="tns:KeywordService">
<wsp:PolicyReference URI="#BasicHttpBinding_KeywordService_policy"/>
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name="DetachNamedContextFromSearchSetting">
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        <soap12:operation
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  amedContextFromSearchSetting"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AttachNamedContextToSearchSetting">
        <soap12:operation
  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachN
  amedContextToSearchSetting"
          style="document" />
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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AttachContextToSearchSetting">
        <soap12:operation
  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AttachC
  ontextToSearchSetting"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="UpdateContext">
        <soap12:operation
  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateC
  ontext"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
```

```
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="DetachContextFromSearchSetting">
      <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachC
 ontextFromSearchSetting"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CreateAggregateContextExpressionRoot">
      <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CreateA
 ggregateContextExpressionRoot"
        style="document" />
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        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveContextExpressionSubtree">
      <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveC
 ontextExpressionSubtree"
        style="document" />
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        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ContainsContextExpression">
      <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contain
 sContextExpression"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
```

```
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveContextExpressionSubtreeIncludingParent">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveC
  ontextExpressionSubtreeIncludingParent"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetContextExpressionCount">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCont
  extExpressionCount"
          style="document" />
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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddContextExpressionAggregateNode">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCont
  extExpressionAggregateNode"
          style="document" />
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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddContextExpressionAtomicNode">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCont
  extExpressionAtomicNode"
```

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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetContextExpressionTree">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCont
  extExpressionTree"
          style="document" />
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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
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        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveKeywordsByCriteria">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveK
  eywordsByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="CountKeywordsByCriteria">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountKe
  ywordsByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
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```

```
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      <soap12:operation

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ordByCriteria"
        style="document" />
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      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetEmptyKeyword">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmpt
yKeyword"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveKeywordByCriteria">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveK
eywordByCriteria"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddKeyword">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKeyw
ord"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
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  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveC
  ontextsByCriteria"
                style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
```

```
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetContextsPagedResult">
          <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCont
  extsPagedResult"
            style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="DetachContextsFromSearchSetting">
          <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachC
  ontextsFromSearchSetting"
            style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
      </wsdl:binding>

  <wsdl:definitions name="KeywordServiceImpl"
    targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
    xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
    xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
    xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
  1.0.xsd"
    xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
    xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
    xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
    <wsp:Policy wsu:Id="BasicHttpBinding_KeywordService_policy">
      <wsp:ExactlyOne>
        <wsp:All>
          <http:NtlmAuthentication/>
        </wsp:All>
```

```xml
      </wsp:ExactlyOne>
    </wsp:Policy>

    <wsp:Policy wsu:Id="BasicHttpBinding_KeywordServiceSecure_policy">
      <wsp:ExactlyOne>
        <wsp:All>
            <http:NtlmAuthentication/>
            <sp:TransportBinding>
               <wsp:Policy>
                  <sp:TransportToken>
                   <wsp:Policy>
                      <sp:HttpsToken RequireClientCertificate="false"/>
                   </wsp:Policy>
                  </sp:TransportToken>
                  <sp:AlgorithmSuite>
                      <wsp:Policy>
                         <sp:Basic256/>
                      </wsp:Policy>
                  </sp:AlgorithmSuite>
                  <sp:Layout>
                     <wsp:Policy>
                        <sp:Strict/>
                     </wsp:Policy>
                  </sp:Layout>
               </wsp:Policy>
            </sp:TransportBinding>
        </wsp:All>
      </wsp:ExactlyOne>
  </wsp:Policy>
    <wsdl:types>

      <xsd:schema elementFormDefault="qualified"
        targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
        <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:import
          namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

        <xsd:complexType name="PromotedExpressionDTO" mixed="true">
          <xsd:complexContent>
            <xsd:extension base="tns:PromotedItemDTO">
              <xsd:sequence />
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>

        <xsd:complexType name="PromotedItemDTO" mixed="true">
          <xsd:complexContent>
            <xsd:extension base="tns:CommonDTOMembers">
              <xsd:sequence>
                <xsd:element minOccurs="0" name="PromotedItemSpec"
                  nillable="true" type="xsd:string" />
                <xsd:element minOccurs="0" name="PromotedItemType"
                  type="tns:KeywordItemType" />
                <xsd:element minOccurs="0" name="PromotionId" type="xsd:long" />
              </xsd:sequence>
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>
```

```xsd
        <xsd:complexType name="CommonDTOMembers" mixed="true">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="Description" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="Group" nillable="true"
              type="tns:SearchSettingGroupDTO" />
            <xsd:element minOccurs="0" name="Id" type="xsd:long" />
            <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
            <xsd:element minOccurs="0" name="Name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
          <xsd:attribute ref="ser:Id" />
          <xsd:attribute ref="ser:Ref" />
        </xsd:complexType>

        <xsd:simpleType name="KeywordItemType">
          <xsd:annotation>
            <xsd:appinfo>
              <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
                xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
            </xsd:appinfo>
          </xsd:annotation>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="Synonym">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</EnumerationValue>
                </xsd:appinfo>
              </xsd:annotation>
            </xsd:enumeration>
            <xsd:enumeration value="Promotion">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">2</EnumerationValue>
                </xsd:appinfo>
              </xsd:annotation>
            </xsd:enumeration>
            <xsd:enumeration value="BestBet">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">3</EnumerationValue>
                </xsd:appinfo>
              </xsd:annotation>
            </xsd:enumeration>
            <xsd:enumeration value="FeaturedContent">
              <xsd:annotation>
                <xsd:appinfo>
                  <EnumerationValue
  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">4</EnumerationValue>
                </xsd:appinfo>
              </xsd:annotation>
            </xsd:enumeration>
```

```
                <xsd:enumeration value="SearchSettingGroup">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">5</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="Keyword">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="Context">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="PromotedDocument">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">8</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="PromotedLocation">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">9</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="PromotedExpression">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue

  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">10</EnumerationValue>
                    </xsd:appinfo>
                  </xsd:annotation>
                </xsd:enumeration>
                <xsd:enumeration value="SearchSetting">
                  <xsd:annotation>
                    <xsd:appinfo>
                      <EnumerationValue
```

```
       xmlns="http://schemas.microsoft.com/2003/10/Serialization/">11</EnumerationValue>
             </xsd:appinfo>
           </xsd:annotation>
         </xsd:enumeration>
       </xsd:restriction>
     </xsd:simpleType>

     <xsd:complexType name="SynonymDTO" mixed="true">
       <xsd:complexContent>
         <xsd:extension base="tns:SearchSettingDTO">
           <xsd:sequence>
             <xsd:element minOccurs="0" name="ContextId" nillable="true"
               type="xsd:long" />
             <xsd:element minOccurs="0" name="ExpansionType"
               type="tns:SynonymExpansionType" />
             <xsd:element minOccurs="0" name="Term" nillable="true"
               type="xsd:string" />
           </xsd:sequence>
         </xsd:extension>
       </xsd:complexContent>
     </xsd:complexType>

     <xsd:complexType name="SearchSettingDTO" mixed="true">
       <xsd:complexContent>
         <xsd:extension base="tns:CommonDTOMembers">
           <xsd:sequence>
             <xsd:element minOccurs="0" name="Contexts" nillable="true"
               type="tns:ArrayOfContextDTO" />
             <xsd:element minOccurs="0" name="ValidFrom" nillable="true"
               type="xsd:dateTime" />
             <xsd:element minOccurs="0" name="ValidTo" nillable="true"
               type="xsd:dateTime" />
             <xsd:element minOccurs="0" name="keyword" nillable="true"
               type="tns:KeywordDTO" />
           </xsd:sequence>
         </xsd:extension>
       </xsd:complexContent>
     </xsd:complexType>

     <xsd:simpleType name="SynonymExpansionType">
       <xsd:restriction base="xsd:string">
         <xsd:enumeration value="OneWay" />
         <xsd:enumeration value="TwoWay" />
       </xsd:restriction>
     </xsd:simpleType>

     <xsd:complexType name="PromotedDocumentDTO" mixed="false">
       <xsd:complexContent mixed="false">
         <xsd:extension base="tns:PromotedItemDTO">
           <xsd:sequence />
         </xsd:extension>
       </xsd:complexContent>
     </xsd:complexType>

     <xsd:complexType name="PromotedLocationDTO" mixed="false">
       <xsd:complexContent mixed="false">
         <xsd:extension base="tns:PromotedItemDTO">
           <xsd:sequence />
```

```
        </xsd:extension>
      </xsd:complexContent>
  </xsd:complexType>


  <xsd:complexType name="BestBetDTO" mixed="false">
    <xsd:complexContent mixed="false">
      <xsd:extension base="tns:ManagedResultDTO">
        <xsd:sequence />
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>


  <xsd:complexType name="ManagedResultDTO" mixed="true">
    <xsd:complexContent>
      <xsd:extension base="tns:SearchSettingDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="Position" nillable="true"
            type="xsd:short" />
          <xsd:element minOccurs="0" name="Teaser" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="TeaserContentType"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="Uri" nillable="true"
            type="xsd:anyURI" />
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>


  <xsd:complexType name="FeaturedContentDTO" mixed="false">
    <xsd:complexContent mixed="false">
      <xsd:extension base="tns:ManagedResultDTO">
        <xsd:sequence />
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>


  <xsd:complexType name="PromotionDTO" mixed="true">
    <xsd:complexContent>
      <xsd:extension base="tns:SearchSettingDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="BoostValue" type="xsd:int" />
          <xsd:element minOccurs="0" name="PromotedItems"
            nillable="true" type="tns:ArrayOfPromotedItemDTO" />
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>


  <xsd:complexType name="ContextExpressionDTO" mixed="true">
    <xsd:complexContent>
      <xsd:extension base="tns:CommonDTOMembers">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ContextId" type="xsd:long" />
          <xsd:element minOccurs="0" name="ExpressionType"
            type="tns:ExpressionTypes" />
          <xsd:element minOccurs="0" name="Parent" nillable="true"
            type="tns:ContextExpressionDTO" />
          <xsd:element minOccurs="0" name="Value" nillable="true"
```

```
              type="xsd:string" />
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>

    <xsd:simpleType name="ExpressionTypes">
      <xsd:annotation>
        <xsd:appinfo>
          <ActualType Name="unsignedByte" Namespace="http://www.w3.org/2001/XMLSchema"
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/" />
        </xsd:appinfo>
      </xsd:annotation>
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="AND" />
        <xsd:enumeration value="NOT" />
        <xsd:enumeration value="OR" />
        <xsd:enumeration value="MATCH" />
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:complexType name="ContextDTO" mixed="true">
      <xsd:complexContent>
        <xsd:extension base="tns:CommonDTOMembers">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContextExpressionRoot"
              nillable="true" type="tns:ContextExpressionDTO" />
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>

    <xsd:complexType name="KeywordDTO" mixed="true">
      <xsd:complexContent>
        <xsd:extension base="tns:CommonDTOMembers">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="SearchSettings"
              nillable="true" type="tns:ArrayOfSearchSettingDTO" />
          </xsd:sequence>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>

    <xsd:complexType name="SearchSettingGroupDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="Description" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="Id" type="xsd:long" />
        <xsd:element minOccurs="0" name="LastChanged" type="xsd:dateTime" />
        <xsd:element minOccurs="0" name="Name" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="DetachNamedContextFromSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingId"
            type="xsd:long" />
```

```xml
      <xsd:element minOccurs="0" name="contextName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="DetachNamedContextFromSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="AdminExceptionWCF">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
      type="xsd:string" />
    <xsd:element minOccurs="0" name="Values" nillable="true"
      type="msa:ArrayOfstring" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="AdminExceptionWCF" nillable="true"
  type="tns:AdminExceptionWCF" />

<xsd:element name="AttachNamedContextToSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId"
        type="xsd:long" />
      <xsd:element minOccurs="0" name="contextName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AttachNamedContextToSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="AttachNamedContextToSearchSettingResult" nillable="true"
        type="tns:ContextDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AttachContextToSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId"
        type="xsd:long" />
      <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AttachContextToSearchSettingResponse">
  <xsd:complexType>
```

```
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="AttachContextToSearchSettingResult" type="xsd:dateTime" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateContext">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="context" nillable="true"
              type="tns:ContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateContextResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="UpdateContextResult"
              nillable="true" type="tns:ContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DetachContextFromSearchSetting">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="searchSettingId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DetachContextFromSearchSettingResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="DetachContextFromSearchSettingResult" type="xsd:dateTime" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateAggregateContextExpressionRoot">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="context" nillable="true"
              type="tns:ContextDTO" />
            <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateAggregateContextExpressionRootResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="CreateAggregateContextExpressionRootResult" nillable="true"
```

```
              type="tns:ContextExpressionDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextExpressionSubtree">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextExpressionSubtreeResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="RemoveContextExpressionSubtreeResult" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsContextExpression">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
          <xsd:element minOccurs="0" name="nodeId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsContextExpressionResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="ContainsContextExpressionResult" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextExpressionSubtreeIncludingParent">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveContextExpressionSubtreeIncludingParentResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="RemoveContextExpressionSubtreeIncludingParentResult" type="xsd:boolean"
  />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetContextExpressionCount">
```

```xsd
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetContextExpressionCountResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetContextExpressionCountResult" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAggregateNode">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
            <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAggregateNodeResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="AddContextExpressionAggregateNodeResult" nillable="true"
              type="tns:ContextExpressionDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAtomicNode">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
            <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
            <xsd:element minOccurs="0" name="key" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="value" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="type" type="tns:ExpressionTypes" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddContextExpressionAtomicNodeResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="AddContextExpressionAtomicNodeResult" nillable="true"
              type="tns:ContextExpressionDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
```

```xml
<xsd:element name="GetContextExpressionTree">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="parentId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetContextExpressionTreeResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="GetContextExpressionTreeResult" nillable="true"
        type="tns:ArrayOfContextExpressionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfContextExpressionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="ContextExpressionDTO" nillable="true" type="tns:ContextExpressionDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="RemoveKeywordsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveKeywordsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountKeywordsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountKeywordsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountKeywordsByCriteriaResult"
        type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
```

```
      </xsd:element>

      <xsd:element name="GetKeywordByCriteria">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="keywordName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetKeywordByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetKeywordByCriteriaResult"
              nillable="true" type="tns:KeywordDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetEmptyKeyword">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetEmptyKeywordResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEmptyKeywordResult"
              nillable="true" type="tns:KeywordDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveKeywordByCriteria">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="keywordName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveKeywordByCriteriaResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddKeyword">
        <xsd:complexType>
          <xsd:sequence>
```

```xml
        <xsd:element minOccurs="0" name="keyword" nillable="true"
          type="tns:KeywordDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AddKeywordResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="AddKeywordResult"
          nillable="true" type="tns:KeywordDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetKeywordPagedResult">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="field" type="tns:KeywordSortField" />
        <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
        <xsd:element minOccurs="0" name="offset" type="xsd:int" />
        <xsd:element minOccurs="0" name="count" type="xsd:int" />
        <xsd:element minOccurs="0" name="filter" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="KeywordSortField">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Term" />
      <xsd:enumeration value="LastChanged" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="SortDirection">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="Ascending" />
      <xsd:enumeration value="Descending" />
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="GetKeywordPagedResultResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetKeywordPagedResultResult"
          nillable="true" type="tns:ArrayOfKeywordDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ArrayOfKeywordDTO">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded" name="KeywordDTO"
        nillable="true" type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
```

```
<xsd:element name="UpdateKeyword">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keyword" nillable="true"
        type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateKeywordResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="UpdateKeywordResult"
        nillable="true" type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetKeywordById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>

</xsd:element>
<xsd:element name="GetKeywordByIdResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetKeywordByIdResult"
        nillable="true" type="tns:KeywordDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AddSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="description"
        nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="AddSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="AddSearchSettingGroupResult"
        nillable="true" type="tns:SearchSettingGroupDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetNamedSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true"
```

```
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetNamedSearchSettingGroupResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetNamedSearchSettingGroupResult" nillable="true"
              type="tns:SearchSettingGroupDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateSearchSettingGroup">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="searchSettingGroup"
              nillable="true" type="tns:SearchSettingGroupDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateSearchSettingGroupResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="UpdateSearchSettingGroupResult" nillable="true"
              type="tns:SearchSettingGroupDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveSearchSettingGroups">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveSearchSettingGroupsResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveSearchSettingGroupById">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="RemoveSearchSettingGroupByIdResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
```

```xsd
<xsd:element name="RemoveNamedSearchSettingGroup">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupName" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveNamedSearchSettingGroupResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountSearchSettingGroups">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountSearchSettingGroupsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CountSearchSettingGroupsResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetSearchSettingGroups">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetSearchSettingGroupsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetSearchSettingGroupsResult"
        nillable="true" type="tns:ArrayOfSearchSettingGroupDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfSearchSettingGroupDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="SearchSettingGroupDTO" nillable="true" type="tns:SearchSettingGroupDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="RemovePromotedItem">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="itemId" type="xsd:long" />
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
```

```
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemovePromotedItemResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="RemovePromotedItemResult"
            type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountPromotedItems">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="promitionId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountPromotedItemsResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="CountPromotedItemsResult"
            type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemovePromotedItems">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemovePromotedItemsResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsPromotedItem">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="itemId" type="xsd:long" />
          <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="ContainsPromotedItemResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ContainsPromotedItemResult"
            type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
```

```xml
      </xsd:element>

      <xsd:element name="AddPromotedItem">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="promotedItem"
              nillable="true" type="tns:PromotedItemDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="AddPromotedItemResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="AddPromotedItemResult"
              nillable="true" type="tns:PromotedItemDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdatePromotedItem">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="promotedItem"
              nillable="true" type="tns:PromotedItemDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdatePromotedItemResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="UpdatePromotedItemResult"
              nillable="true" type="tns:PromotedItemDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetPromotionPagedResult">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
            <xsd:element minOccurs="0" name="field"
              type="tns:PromotionSortField" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
            <xsd:element minOccurs="0" name="filter" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:simpleType name="PromotionSortField">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="Name" />
          <xsd:enumeration value="LastChanged" />
          <xsd:enumeration value="StartDate" />
          <xsd:enumeration value="EndDdate" />
```

```
                    <xsd:enumeration value="PromotionSpec">
                      <xsd:annotation>
                        <xsd:appinfo>
                          <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">6</EnumerationValue>
                        </xsd:appinfo>
                      </xsd:annotation>
                    </xsd:enumeration>
                  </xsd:restriction>
            </xsd:simpleType>

            <xsd:element name="GetPromotionPagedResultResponse">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="GetPromotionPagedResultResult"
                    nillable="true" type="tns:ArrayOfPromotionDTO" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

            <xsd:complexType name="ArrayOfPromotionDTO">
              <xsd:sequence>
                <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotionDTO"
                  nillable="true" type="tns:PromotionDTO" />
              </xsd:sequence>
            </xsd:complexType>

            <xsd:element name="GetPromotedItems">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

            <xsd:element name="GetPromotedItemsResponse">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="GetPromotedItemsResult"
                    nillable="true" type="tns:ArrayOfPromotedItemDTO" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

            <xsd:complexType name="ArrayOfPromotedItemDTO">
              <xsd:sequence>
                <xsd:element minOccurs="0" maxOccurs="unbounded" name="PromotedItemDTO"
                  nillable="true" type="tns:PromotedItemDTO" />
              </xsd:sequence>
            </xsd:complexType>

            <xsd:element name="GetPromotedDocuments">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
```

```xml
<xsd:element name="GetPromotedDocumentsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedDocumentsResult"
        nillable="true" type="tns:ArrayOfPromotedDocumentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotedDocumentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="PromotedDocumentDTO" nillable="true" type="tns:PromotedDocumentDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="GetPromotedExpressions">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotedExpressionsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedExpressionsResult"
        nillable="true" type="tns:ArrayOfPromotedExpressionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotedExpressionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="PromotedExpressionDTO" nillable="true" type="tns:PromotedExpressionDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="GetPromotedLocations">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="promotionId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetPromotedLocationsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetPromotedLocationsResult"
        nillable="true" type="tns:ArrayOfPromotedLocationDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfPromotedLocationDTO">
```

```
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="PromotedLocationDTO" nillable="true" type="tns:PromotedLocationDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="GetBestBetPagedResult">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="field" type="tns:BestBetSortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:simpleType name="BestBetSortField">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Name" />
        <xsd:enumeration value="LastChanged" />
        <xsd:enumeration value="StartDate" />
        <xsd:enumeration value="EndDate" />
        <xsd:enumeration value="Uri" />
        <xsd:enumeration value="Position" />
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:element name="GetBestBetPagedResultResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetBestBetPagedResultResult"
            nillable="true" type="tns:ArrayOfBestBetDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfBestBetDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" name="BestBetDTO"
          nillable="true" type="tns:BestBetDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="GetFeaturedContentPagedResult">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="field"
            type="tns:FeaturedContentSortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
```

```xsd
      </xsd:complexType>
    </xsd:element>

    <xsd:simpleType name="FeaturedContentSortField">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Name" />
        <xsd:enumeration value="LastChanged" />
        <xsd:enumeration value="StartDate" />
        <xsd:enumeration value="EndDate" />
        <xsd:enumeration value="Uri" />
        <xsd:enumeration value="Position" />
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:element name="GetFeaturedContentPagedResultResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetFeaturedContentPagedResultResult" nillable="true"
            type="tns:ArrayOfFeaturedContentDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfFeaturedContentDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="FeaturedContentDTO" nillable="true" type="tns:FeaturedContentDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="AddSynonym">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="synonym" nillable="true"
            type="tns:SynonymDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSynonymResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="AddSynonymResult"
            nillable="true" type="tns:SynonymDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountSearchSettingsByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

```
<xsd:element name="CountSearchSettingsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CountSearchSettingsByCriteriaResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsSearchSettingByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsSearchSettingByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="ContainsSearchSettingByCriteriaResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsSearchSettingById">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="searchSettingId"
        type="xsd:long" />
      <xsd:element minOccurs="0" name="contextId" nillable="true"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="ContainsSearchSettingByIdResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="ContainsSearchSettingByIdResult" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveSearchSettingsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
      <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
```

```
    </xsd:element>

    <xsd:element name="RemoveSearchSettingsByCriteriaResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingId"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveSearchSettingResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="RemoveSearchSettingResult"
            type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveNamedSearchSettingByType">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="RemoveNamedSearchSettingByTypeResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="RemoveNamedSearchSettingByTypeResult" nillable="true"
            type="xsd:dateTime" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSearchSetting">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSetting"
            nillable="true" type="tns:SearchSettingDTO" />
          <xsd:element minOccurs="0" name="contextId" nillable="true"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="AddSearchSettingResponse">
```

```xml
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="AddSearchSettingResult"
            nillable="true" type="tns:SearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetSearchSettingByNameAndType">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="searchSettingName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetSearchSettingByNameAndTypeResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetSearchSettingByNameAndTypeResult" nillable="true"
            type="tns:SearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountSearchSettingsForGroupByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountSearchSettingsForGroupByCriteriaResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="CountSearchSettingsForGroupByCriteriaResult" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetSynonymPagedResult">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="keywordId" type="xsd:long" />
          <xsd:element minOccurs="0" name="field" type="tns:SynonymSortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
```

```xml
                      type="xsd:string" />
                </xsd:sequence>
              </xsd:complexType>
          </xsd:element>

          <xsd:simpleType name="SynonymSortField">
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="Name" />
              <xsd:enumeration value="LastChanged" />
              <xsd:enumeration value="StartDate" />
              <xsd:enumeration value="EndDate" />
              <xsd:enumeration value="Term">
                <xsd:annotation>
                  <xsd:appinfo>
                    <EnumerationValue

 xmlns="http://schemas.microsoft.com/2003/10/Serialization/">7</EnumerationValue>
                  </xsd:appinfo>
                </xsd:annotation>
              </xsd:enumeration>
            </xsd:restriction>
          </xsd:simpleType>

          <xsd:element name="GetSynonymPagedResultResponse">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element minOccurs="0" name="GetSynonymPagedResultResult"
                  nillable="true" type="tns:ArrayOfSynonymDTO" />
              </xsd:sequence>
            </xsd:complexType>
          </xsd:element>

          <xsd:complexType name="ArrayOfSynonymDTO">
            <xsd:sequence>
              <xsd:element minOccurs="0" maxOccurs="unbounded" name="SynonymDTO"
                nillable="true" type="tns:SynonymDTO" />
            </xsd:sequence>
          </xsd:complexType>

          <xsd:element name="UpdateSearchSetting">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element minOccurs="0" name="searchSetting"
                  nillable="true" type="tns:SearchSettingDTO" />
              </xsd:sequence>
            </xsd:complexType>
          </xsd:element>

          <xsd:element name="UpdateSearchSettingResponse">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element minOccurs="0" name="UpdateSearchSettingResult"
                  nillable="true" type="tns:SearchSettingDTO" />
              </xsd:sequence>
            </xsd:complexType>
          </xsd:element>

          <xsd:element name="GetSearchSettingPagedResult">
            <xsd:complexType>
```

```xsd
        <xsd:sequence>
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          <xsd:element minOccurs="0" name="field"
            type="tns:SearchSettingSortField" />
          <xsd:element minOccurs="0" name="ascending" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
          <xsd:element minOccurs="0" name="contextId" nillable="true"
            type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:simpleType name="SearchSettingSortField">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Name" />
        <xsd:enumeration value="LastChanged" />
        <xsd:enumeration value="StartDate" />
        <xsd:enumeration value="EndDate" />
        <xsd:enumeration value="ManagedResultUri" />
        <xsd:enumeration value="ManagedResultPosition" />
        <xsd:enumeration value="PromotionSpec" />
        <xsd:enumeration value="SynonymTerm" />
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:element name="GetSearchSettingPagedResultResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetSearchSettingPagedResultResult" nillable="true"
            type="tns:ArrayOfSearchSettingDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfSearchSettingDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" name="SearchSettingDTO"
          nillable="true" type="tns:SearchSettingDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="RemoveSearchSettingsFromGroupByCriteria">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
          <xsd:element minOccurs="0" name="type" type="tns:KeywordItemType" />
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="global" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

```
<xsd:element name="RemoveSearchSettingsFromGroupByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountSearchSettingsForContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CountSearchSettingsForContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CountSearchSettingsForContextResult" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetNamedContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetNamedContextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetNamedContextResult"
        nillable="true" type="tns:ContextDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetNamedContextForSearchSetting">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="searchSettingId"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetNamedContextForSearchSettingResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="GetNamedContextForSearchSettingResult" nillable="true"
        type="tns:ContextDTO" />
```

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

  <xsd:element name="AddContext">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="context" nillable="true"
          type="tns:ContextDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AddContextResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="AddContextResult"
          nillable="true" type="tns:ContextDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CountContextsByCriteria">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="filter" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CountContextsByCriteriaResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="CountContextsByCriteriaResult"
          type="xsd:int" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CountContextsForSearchSetting">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="searchSettingId"
          type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CountContextsForSearchSettingResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0"
          name="CountContextsForSearchSettingResult" type="xsd:int" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```xml
<xsd:element name="RemoveNamedContext">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="contextName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveNamedContextResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveContextsByCriteria">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="RemoveContextsByCriteriaResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetContextsPagedResult">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="groupId" type="xsd:long" />
      <xsd:element minOccurs="0" name="field" type="tns:ContextSortField" />
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
      <xsd:element minOccurs="0" name="filter" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="searchSettingId"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:simpleType name="ContextSortField">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Name" />
    <xsd:enumeration value="LastChanged" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="GetContextsPagedResultResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetContextsPagedResultResult"
```

```
                nillable="true" type="tns:ArrayOfContextDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfContextDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="ContextDTO"
            nillable="true" type="tns:ContextDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="DetachContextsFromSearchSetting">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="searchSettingId"
              type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DetachContextsFromSearchSettingResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

    </xsd:schema>

    <xsd:schema attributeFormDefault="qualified"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/">
      <xsd:attribute name="Id" type="xsd:ID" />
      <xsd:attribute name="Ref" type="xsd:IDREF" />
    </xsd:schema>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <xsd:complexType name="ArrayOfstring">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
            nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
      <xsd:element name="ArrayOfstring" nillable="true"
        type="msa:ArrayOfstring" />
    </xsd:schema>

  </wsdl:types>

  <wsdl:message
    name="KeywordService_DetachContextsFromSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:DetachContextsFromSearchSetting" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_DetachContextsFromSearchSetting_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:DetachContextsFromSearchSettingResponse" />
  </wsdl:message>
```

```
      <wsdl:message

  name="KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_DetachNamedContextFromSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:DetachNamedContextFromSearchSetting" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_DetachNamedContextFromSearchSetting_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:DetachNamedContextFromSearchSettingResponse" />
  </wsdl:message>
  <wsdl:message

name="KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage"
>
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AttachNamedContextToSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:AttachNamedContextToSearchSetting" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AttachNamedContextToSearchSetting_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:AttachNamedContextToSearchSettingResponse" />
  </wsdl:message>
  <wsdl:message

  name="KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AttachContextToSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:AttachContextToSearchSetting" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AttachContextToSearchSetting_OutputMessage">
    <wsdl:part name="parameters" element="tns:AttachContextToSearchSettingResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateContext_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateContext" />
  </wsdl:message>
  <wsdl:message name="KeywordService_UpdateContext_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateContextResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_DetachContextFromSearchSetting_InputMessage">
    <wsdl:part name="parameters" element="tns:DetachContextFromSearchSetting" />
```

```
    </wsdl:message>
    <wsdl:message
      name="KeywordService_DetachContextFromSearchSetting_OutputMessage">
      <wsdl:part name="parameters" element="tns:DetachContextFromSearchSettingResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CreateAggregateContextExpressionRoot_InputMessage">
      <wsdl:part name="parameters" element="tns:CreateAggregateContextExpressionRoot" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CreateAggregateContextExpressionRoot_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:CreateAggregateContextExpressionRootResponse" />
    </wsdl:message>
    <wsdl:message

  name="KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_FaultMessage
  ">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextExpressionSubtree_InputMessage">
      <wsdl:part name="parameters" element="tns:RemoveContextExpressionSubtree" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextExpressionSubtree_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveContextExpressionSubtreeResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_ContainsContextExpression_InputMessage">
      <wsdl:part name="parameters" element="tns:ContainsContextExpression" />
    </wsdl:message>
    <wsdl:message name="KeywordService_ContainsContextExpression_OutputMessage">
      <wsdl:part name="parameters" element="tns:ContainsContextExpressionResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage">
      <wsdl:part name="parameters"
        element="tns:RemoveContextExpressionSubtreeIncludingParent" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:RemoveContextExpressionSubtreeIncludingParentResponse" />
    </wsdl:message>
    <wsdl:message
```

```
  name="KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFault_Fau
ltMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionCount" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionCountResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAggregateNode_InputMessage">
    <wsdl:part name="parameters" element="tns:AddContextExpressionAggregateNode" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAggregateNode_OutputMessage">
    <wsdl:part name="parameters"
      element="tns:AddContextExpressionAggregateNodeResponse" />
  </wsdl:message>
  <wsdl:message

 name="KeywordService_AddContextExpressionAggregateNode_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAtomicNode_InputMessage">
    <wsdl:part name="parameters" element="tns:AddContextExpressionAtomicNode" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAtomicNode_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddContextExpressionAtomicNodeResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionTree_InputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionTree" />
  </wsdl:message>
  <wsdl:message name="KeywordService_GetContextExpressionTree_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetContextExpressionTreeResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordsByCriteria_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordsByCriteria" />
  </wsdl:message>
  <wsdl:message name="KeywordService_RemoveKeywordsByCriteria_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveKeywordsByCriteriaResponse" />
  </wsdl:message>
  <wsdl:message
    name="KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage">
```

```
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_CountKeywordsByCriteria_InputMessage">
      <wsdl:part name="parameters" element="tns:CountKeywordsByCriteria" />
    </wsdl:message>
    <wsdl:message name="KeywordService_CountKeywordsByCriteria_OutputMessage">
      <wsdl:part name="parameters" element="tns:CountKeywordsByCriteriaResponse" />
    </wsdl:message>
    <wsdl:message
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  <wsdl:message name="KeywordService_AddSearchSettingGroup_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddSearchSettingGroupResponse" />
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  <wsdl:message
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      <wsdl:part name="parameters" element="tns:RemovePromotedItemResponse" />
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    </wsdl:message>
    <wsdl:message name="KeywordService_CountContextsByCriteria_OutputMessage">
      <wsdl:part name="parameters" element="tns:CountContextsByCriteriaResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CountContextsForSearchSetting_InputMessage">
      <wsdl:part name="parameters" element="tns:CountContextsForSearchSetting" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CountContextsForSearchSetting_OutputMessage">
      <wsdl:part name="parameters" element="tns:CountContextsForSearchSettingResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveNamedContext_InputMessage">
      <wsdl:part name="parameters" element="tns:RemoveNamedContext" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveNamedContext_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveNamedContextResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveContextsByCriteria_InputMessage">
```

```
      <wsdl:part name="parameters" element="tns:RemoveContextsByCriteria" />
    </wsdl:message>
    <wsdl:message name="KeywordService_RemoveContextsByCriteria_OutputMessage">
      <wsdl:part name="parameters" element="tns:RemoveContextsByCriteriaResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetContextsPagedResult_InputMessage">
      <wsdl:part name="parameters" element="tns:GetContextsPagedResult" />
    </wsdl:message>
    <wsdl:message name="KeywordService_GetContextsPagedResult_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetContextsPagedResultResponse" />
    </wsdl:message>
    <wsdl:message
      name="KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>

    <wsdl:portType name="KeywordService">
      <wsdl:operation name="DetachNamedContextFromSearchSetting">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
  NamedContextFromSearchSetting"
          message="tns:KeywordService_DetachNamedContextFromSearchSetting_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
  NamedContextFromSearchSettingResponse"
          message="tns:KeywordService_DetachNamedContextFromSearchSetting_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
  NamedContextFromSearchSettingAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_DetachNamedContextFromSearchSetting_AdminExceptionWCFFault_FaultM
  essage" />
      </wsdl:operation>
      <wsdl:operation name="AttachNamedContextToSearchSetting">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
  NamedContextToSearchSetting"
          message="tns:KeywordService_AttachNamedContextToSearchSetting_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
  NamedContextToSearchSettingResponse"
          message="tns:KeywordService_AttachNamedContextToSearchSetting_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
  NamedContextToSearchSettingAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_AttachNamedContextToSearchSetting_AdminExceptionWCFFault_FaultMes
  sage" />
```

```
    </wsdl:operation>
    <wsdl:operation name="AttachContextToSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSetting"
        message="tns:KeywordService_AttachContextToSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingResponse"
        message="tns:KeywordService_AttachContextToSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Attach
ContextToSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_AttachContextToSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="UpdateContext">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
Context"
        message="tns:KeywordService_UpdateContext_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextResponse"
        message="tns:KeywordService_UpdateContext_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
ContextAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_UpdateContext_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DetachContextFromSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSetting"
        message="tns:KeywordService_DetachContextFromSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingResponse"
        message="tns:KeywordService_DetachContextFromSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Detach
ContextFromSearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_DetachContextFromSearchSetting_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="CreateAggregateContextExpressionRoot">
      <wsdl:input
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRoot"
        message="tns:KeywordService_CreateAggregateContextExpressionRoot_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootResponse"
        message="tns:KeywordService_CreateAggregateContextExpressionRoot_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Create
AggregateContextExpressionRootAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_CreateAggregateContextExpressionRoot_AdminExceptionWCFFault_Fault
Message" />
    </wsdl:operation>
    <wsdl:operation name="RemoveContextExpressionSubtree">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtree"
        message="tns:KeywordService_RemoveContextExpressionSubtree_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeResponse"
        message="tns:KeywordService_RemoveContextExpressionSubtree_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveContextExpressionSubtree_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="ContainsContextExpression">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpression"
        message="tns:KeywordService_ContainsContextExpression_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionResponse"
        message="tns:KeywordService_ContainsContextExpression_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsContextExpressionAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_ContainsContextExpression_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveContextExpressionSubtreeIncludingParent">
      <wsdl:input
```

```
        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParent"

        message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_InputMessage" />
        <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParentResponse"

        message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_OutputMessage" />
        <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextExpressionSubtreeIncludingParentAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

        message="tns:KeywordService_RemoveContextExpressionSubtreeIncludingParent_AdminExceptionWCFFa
ult_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetContextExpressionCount">
          <wsdl:input

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCount"
              message="tns:KeywordService_GetContextExpressionCount_InputMessage" />
          <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountResponse"
              message="tns:KeywordService_GetContextExpressionCount_OutputMessage" />
          <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionCountAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

        message="tns:KeywordService_GetContextExpressionCount_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="AddContextExpressionAggregateNode">
          <wsdl:input

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNode"
              message="tns:KeywordService_AddContextExpressionAggregateNode_InputMessage" />
          <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeResponse"
              message="tns:KeywordService_AddContextExpressionAggregateNode_OutputMessage" />
          <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAggregateNodeAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

        message="tns:KeywordService_AddContextExpressionAggregateNode_AdminExceptionWCFFault_FaultMes
sage" />
        </wsdl:operation>
        <wsdl:operation name="AddContextExpressionAtomicNode">
          <wsdl:input
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNode"
        message="tns:KeywordService_AddContextExpressionAtomicNode_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeResponse"
        message="tns:KeywordService_AddContextExpressionAtomicNode_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
textExpressionAtomicNodeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_AddContextExpressionAtomicNode_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="GetContextExpressionTree">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTree"
        message="tns:KeywordService_GetContextExpressionTree_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTreeResponse"
        message="tns:KeywordService_GetContextExpressionTree_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCon
textExpressionTreeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetContextExpressionTree_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveKeywordsByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteria"
        message="tns:KeywordService_RemoveKeywordsByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaResponse"
        message="tns:KeywordService_RemoveKeywordsByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CountKeywordsByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteria"
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        message="tns:KeywordService_CountKeywordsByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaResponse"
        message="tns:KeywordService_CountKeywordsByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountK
eywordsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_CountKeywordsByCriteria_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetKeywordByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteria"
        message="tns:KeywordService_GetKeywordByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaResponse"
        message="tns:KeywordService_GetKeywordByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
wordByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetKeywordByCriteria_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveKeywordByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteria"
        message="tns:KeywordService_RemoveKeywordByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaResponse"
        message="tns:KeywordService_RemoveKeywordByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
KeywordByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveKeywordByCriteria_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="AddKeyword">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
word"
        message="tns:KeywordService_AddKeyword_InputMessage" />
      <wsdl:output
```

```
       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
       wordResponse"
              message="tns:KeywordService_AddKeyword_OutputMessage" />
            <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddKey
       wordAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
              message="tns:KeywordService_AddKeyword_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="GetKeywordPagedResult">
            <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
       wordPagedResult"
              message="tns:KeywordService_GetKeywordPagedResult_InputMessage" />
            <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
       wordPagedResultResponse"
              message="tns:KeywordService_GetKeywordPagedResult_OutputMessage" />
            <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetKey
       wordPagedResultAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

       message="tns:KeywordService_GetKeywordPagedResult_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="UpdateKeyword">
            <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
       Keyword"
              message="tns:KeywordService_UpdateKeyword_InputMessage" />
            <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
       KeywordResponse"
              message="tns:KeywordService_UpdateKeyword_OutputMessage" />
            <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
       KeywordAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
              message="tns:KeywordService_UpdateKeyword_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="AddSearchSettingGroup">
            <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
       rchSettingGroup"
              message="tns:KeywordService_AddSearchSettingGroup_InputMessage" />
            <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
       rchSettingGroupResponse"
              message="tns:KeywordService_AddSearchSettingGroup_OutputMessage" />
            <wsdl:fault
```

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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingGroupAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_AddSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetNamedSearchSettingGroup">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroup"
          message="tns:KeywordService_GetNamedSearchSettingGroup_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroupResponse"
          message="tns:KeywordService_GetNamedSearchSettingGroup_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
edSearchSettingGroupAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_GetNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="UpdateSearchSettingGroup">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroup"
          message="tns:KeywordService_UpdateSearchSettingGroup_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupResponse"
          message="tns:KeywordService_UpdateSearchSettingGroup_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingGroupAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_UpdateSearchSettingGroup_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveSearchSettingGroups">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroups"
          message="tns:KeywordService_RemoveSearchSettingGroups_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsResponse"
          message="tns:KeywordService_RemoveSearchSettingGroups_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingGroupsAdminExceptionWCFFault"
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```
                      name="AdminExceptionWCFFault"

  message="tns:KeywordService_RemoveSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveSearchSettingGroupById">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingGroupById"
          message="tns:KeywordService_RemoveSearchSettingGroupById_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingGroupByIdResponse"
          message="tns:KeywordService_RemoveSearchSettingGroupById_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingGroupByIdAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_RemoveSearchSettingGroupById_AdminExceptionWCFFault_FaultMessage"
  />
      </wsdl:operation>
      <wsdl:operation name="RemoveNamedSearchSettingGroup">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  NamedSearchSettingGroup"
          message="tns:KeywordService_RemoveNamedSearchSettingGroup_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  NamedSearchSettingGroupResponse"
          message="tns:KeywordService_RemoveNamedSearchSettingGroup_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  NamedSearchSettingGroupAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_RemoveNamedSearchSettingGroup_AdminExceptionWCFFault_FaultMessage
  " />
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingGroups">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
  earchSettingGroups"
          message="tns:KeywordService_CountSearchSettingGroups_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
  earchSettingGroupsResponse"
          message="tns:KeywordService_CountSearchSettingGroups_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
  earchSettingGroupsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
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      message="tns:KeywordService_CountSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSearchSettingGroups">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroups"
        message="tns:KeywordService_GetSearchSettingGroups_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsResponse"
        message="tns:KeywordService_GetSearchSettingGroups_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingGroupsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSearchSettingGroups_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemovePromotedItem">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItem"
        message="tns:KeywordService_RemovePromotedItem_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemResponse"
        message="tns:KeywordService_RemovePromotedItem_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_RemovePromotedItem_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="CountPromotedItems">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItems"
        message="tns:KeywordService_CountPromotedItems_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsResponse"
        message="tns:KeywordService_CountPromotedItems_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountP
romotedItemsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_CountPromotedItems_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemovePromotedItems">
```

```
           <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItems"
        message="tns:KeywordService_RemovePromotedItems_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsResponse"
        message="tns:KeywordService_RemovePromotedItems_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
PromotedItemsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_RemovePromotedItems_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="ContainsPromotedItem">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItem"
        message="tns:KeywordService_ContainsPromotedItem_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItemResponse"
        message="tns:KeywordService_ContainsPromotedItem_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
nsPromotedItemAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_ContainsPromotedItem_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="AddPromotedItem">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItem"
        message="tns:KeywordService_AddPromotedItem_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItemResponse"
        message="tns:KeywordService_AddPromotedItem_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddPro
motedItemAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_AddPromotedItem_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="UpdatePromotedItem">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItem"
        message="tns:KeywordService_UpdatePromotedItem_InputMessage" />
```

```
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItemResponse"
        message="tns:KeywordService_UpdatePromotedItem_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
PromotedItemAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_UpdatePromotedItem_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetPromotionPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResult"
        message="tns:KeywordService_GetPromotionPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResultResponse"
        message="tns:KeywordService_GetPromotionPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motionPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetPromotionPagedResult_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPromotedItems">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItems"
        message="tns:KeywordService_GetPromotedItems_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsResponse"
        message="tns:KeywordService_GetPromotedItems_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedItemsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_GetPromotedItems_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPromotedDocuments">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocuments"
        message="tns:KeywordService_GetPromotedDocuments_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocumentsResponse"
        message="tns:KeywordService_GetPromotedDocuments_OutputMessage" />
```

```
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedDocumentsAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
              message="tns:KeywordService_GetPromotedDocuments_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="GetPromotedExpressions">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressions"
              message="tns:KeywordService_GetPromotedExpressions_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsResponse"
              message="tns:KeywordService_GetPromotedExpressions_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedExpressionsAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

message="tns:KeywordService_GetPromotedExpressions_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetPromotedLocations">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocations"
              message="tns:KeywordService_GetPromotedLocations_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsResponse"
              message="tns:KeywordService_GetPromotedLocations_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetPro
motedLocationsAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
              message="tns:KeywordService_GetPromotedLocations_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="GetBestBetPagedResult">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResult"
              message="tns:KeywordService_GetBestBetPagedResult_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultResponse"
              message="tns:KeywordService_GetBestBetPagedResult_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetBes
tBetPagedResultAdminExceptionWCFFault"
```

```
              name="AdminExceptionWCFFault"

  message="tns:KeywordService_GetBestBetPagedResult_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetFeaturedContentPagedResult">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResult"
          message="tns:KeywordService_GetFeaturedContentPagedResult_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultResponse"
          message="tns:KeywordService_GetFeaturedContentPagedResult_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFea
turedContentPagedResultAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_GetFeaturedContentPagedResult_AdminExceptionWCFFault_FaultMessage
" />
      </wsdl:operation>
      <wsdl:operation name="AddSynonym">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onym"
          message="tns:KeywordService_AddSynonym_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymResponse"
          message="tns:KeywordService_AddSynonym_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyn
onymAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:KeywordService_AddSynonym_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingsByCriteria">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteria"
          message="tns:KeywordService_CountSearchSettingsByCriteria_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaResponse"
          message="tns:KeywordService_CountSearchSettingsByCriteria_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsByCriteriaAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:KeywordService_CountSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessage
" />
```

```
    </wsdl:operation>
    <wsdl:operation name="ContainsSearchSettingByCriteria">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingByCriteria"
        message="tns:KeywordService_ContainsSearchSettingByCriteria_InputMessage" />
      <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingByCriteriaResponse"
        message="tns:KeywordService_ContainsSearchSettingByCriteria_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

  message="tns:KeywordService_ContainsSearchSettingByCriteria_AdminExceptionWCFFault_FaultMessa
  ge" />
    </wsdl:operation>
    <wsdl:operation name="ContainsSearchSettingById">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingById"
        message="tns:KeywordService_ContainsSearchSettingById_InputMessage" />
      <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingByIdResponse"
        message="tns:KeywordService_ContainsSearchSettingById_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contai
  nsSearchSettingByIdAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

  message="tns:KeywordService_ContainsSearchSettingById_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingsByCriteria">
      <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingsByCriteria"
        message="tns:KeywordService_RemoveSearchSettingsByCriteria_InputMessage" />
      <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingsByCriteriaResponse"
        message="tns:KeywordService_RemoveSearchSettingsByCriteria_OutputMessage" />
      <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
  SearchSettingsByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

  message="tns:KeywordService_RemoveSearchSettingsByCriteria_AdminExceptionWCFFault_FaultMessag
  e" />
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSetting">
```

```
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSetting"
        message="tns:KeywordService_RemoveSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingResponse"
        message="tns:KeywordService_RemoveSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_RemoveSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveNamedSearchSettingByType">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByType"
        message="tns:KeywordService_RemoveNamedSearchSettingByType_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByTypeResponse"
        message="tns:KeywordService_RemoveNamedSearchSettingByType_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedSearchSettingByTypeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveNamedSearchSettingByType_AdminExceptionWCFFault_FaultMessag
e" />
    </wsdl:operation>
    <wsdl:operation name="AddSearchSetting">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSetting"
        message="tns:KeywordService_AddSearchSetting_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingResponse"
        message="tns:KeywordService_AddSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSea
rchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_AddSearchSetting_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetSearchSettingByNameAndType">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingByNameAndType"
```

```
          message="tns:KeywordService_GetSearchSettingByNameAndType_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingByNameAndTypeResponse"
          message="tns:KeywordService_GetSearchSettingByNameAndType_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingByNameAndTypeAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSearchSettingByNameAndType_AdminExceptionWCFFault_FaultMessage
" />
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingsForGroupByCriteria">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForGroupByCriteria"
          message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForGroupByCriteriaResponse"
          message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
earchSettingsForGroupByCriteriaAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_CountSearchSettingsForGroupByCriteria_AdminExceptionWCFFault_Faul
tMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetSynonymPagedResult">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResult"
          message="tns:KeywordService_GetSynonymPagedResult_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultResponse"
          message="tns:KeywordService_GetSynonymPagedResult_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyn
onymPagedResultAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSynonymPagedResult_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="UpdateSearchSetting">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSetting"
          message="tns:KeywordService_UpdateSearchSetting_InputMessage" />
        <wsdl:output
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingResponse"
        message="tns:KeywordService_UpdateSearchSetting_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Update
SearchSettingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_UpdateSearchSetting_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetSearchSettingPagedResult">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResult"
        message="tns:KeywordService_GetSearchSettingPagedResult_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResultResponse"
        message="tns:KeywordService_GetSearchSettingPagedResult_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSea
rchSettingPagedResultAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_GetSearchSettingPagedResult_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingsFromGroupByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteria"
        message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaResponse"
        message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
SearchSettingsFromGroupByCriteriaAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:KeywordService_RemoveSearchSettingsFromGroupByCriteria_AdminExceptionWCFFault_Fa
ultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetEmptyKeyword">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
tyKeyword"
        message="tns:KeywordService_GetEmptyKeyword_InputMessage" />
      <wsdl:output
```

```
       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
       tyKeywordResponse"
               message="tns:KeywordService_GetEmptyKeyword_OutputMessage" />
           <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetEmp
       tyKeywordAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"
               message="tns:KeywordService_GetEmptyKeyword_AdminExceptionWCFFault_FaultMessage" />
         </wsdl:operation>
         <wsdl:operation name="CountSearchSettingsForContext">
           <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
       earchSettingsForContext"
               message="tns:KeywordService_CountSearchSettingsForContext_InputMessage" />
           <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
       earchSettingsForContextResponse"
               message="tns:KeywordService_CountSearchSettingsForContext_OutputMessage" />
           <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountS
       earchSettingsForContextAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

       message="tns:KeywordService_CountSearchSettingsForContext_AdminExceptionWCFFault_FaultMessage
       " />
         </wsdl:operation>
         <wsdl:operation name="GetNamedContext">
           <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
       edContext"
               message="tns:KeywordService_GetNamedContext_InputMessage" />
           <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
       edContextResponse"
               message="tns:KeywordService_GetNamedContext_OutputMessage" />
           <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
       edContextAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"
               message="tns:KeywordService_GetNamedContext_AdminExceptionWCFFault_FaultMessage" />
         </wsdl:operation>
         <wsdl:operation name="GetNamedContextForSearchSetting">
           <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
       edContextForSearchSetting"
               message="tns:KeywordService_GetNamedContextForSearchSetting_InputMessage" />
           <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
       edContextForSearchSettingResponse"
               message="tns:KeywordService_GetNamedContextForSearchSetting_OutputMessage" />
           <wsdl:fault
```

```
      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetNam
      edContextForSearchSettingAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

      message="tns:KeywordService_GetNamedContextForSearchSetting_AdminExceptionWCFFault_FaultMessa
      ge" />
          </wsdl:operation>
          <wsdl:operation name="AddContext">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
      text"
              message="tns:KeywordService_AddContext_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
      textResponse"
              message="tns:KeywordService_AddContext_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCon
      textAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
              message="tns:KeywordService_AddContext_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="CountContextsByCriteria">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsByCriteria"
              message="tns:KeywordService_CountContextsByCriteria_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsByCriteriaResponse"
              message="tns:KeywordService_CountContextsByCriteria_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsByCriteriaAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"

      message="tns:KeywordService_CountContextsByCriteria_AdminExceptionWCFFault_FaultMessage" />
          </wsdl:operation>
          <wsdl:operation name="CountContextsForSearchSetting">
            <wsdl:input

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsForSearchSetting"
              message="tns:KeywordService_CountContextsForSearchSetting_InputMessage" />
            <wsdl:output

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsForSearchSettingResponse"
              message="tns:KeywordService_CountContextsForSearchSetting_OutputMessage" />
            <wsdl:fault

      wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountC
      ontextsForSearchSettingAdminExceptionWCFFault"
              name="AdminExceptionWCFFault"
```

```
      message="tns:KeywordService_CountContextsForSearchSetting_AdminExceptionWCFFault_FaultMessage
" />
    </wsdl:operation>
    <wsdl:operation name="RemoveNamedContext">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContext"
        message="tns:KeywordService_RemoveNamedContext_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextResponse"
        message="tns:KeywordService_RemoveNamedContext_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
NamedContextAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:KeywordService_RemoveNamedContext_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveContextsByCriteria">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Remove
ContextsByCriteria"
        message="tns:KeywordService_RemoveContextsByCriteria_InputMessage" />
      <wsdl:output

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ContextsByCriteriaResponse"
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ContextsByCriteriaAdminExceptionWCFFault"
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message="tns:KeywordService_RemoveContextsByCriteria_AdminExceptionWCFFault_FaultMessage" />
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textsPagedResultResponse"
        message="tns:KeywordService_GetContextsPagedResult_OutputMessage" />
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textsPagedResultAdminExceptionWCFFault"
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message="tns:KeywordService_GetContextsPagedResult_AdminExceptionWCFFault_FaultMessage" />
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ContextsFromSearchSetting"
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        message="tns:KeywordService_DetachContextsFromSearchSetting_OutputMessage" />
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ContextsFromSearchSettingAdminExceptionWCFFault"
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message="tns:KeywordService_DetachContextsFromSearchSetting_AdminExceptionWCFFault_FaultMessa
ge" />
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amedContextFromSearchSetting"
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ggregateContextExpressionRoot"
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  ontextExpressionSubtreeIncludingParent"
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  eywordsByCriteria"
              style="document" />
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  ywordsByCriteria"
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  yKeyword"
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ord"
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ordPagedResult"
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dSearchSettingGroup"
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earchSettingGroups"
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  chSettingGroups"
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 otedItem"
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 otionPagedResult"
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otedItems"
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otedDocuments"
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otedExpressions"
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        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetFeaturedContentPagedResult">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetFeat
  uredContentPagedResult"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddSynonym">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSyno
  nym"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingsByCriteria">
        <soap12:operation
```

```
      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSe
archSettingsByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ContainsSearchSettingByCriteria">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contain
sSearchSettingByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ContainsSearchSettingById">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/Contain
sSearchSettingById"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveSearchSettingsByCriteria">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveS
earchSettingsByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
```

```
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveSearchSetting">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveS
earchSetting"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveNamedSearchSettingByType">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveN
amedSearchSettingByType"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddSearchSetting">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddSear
chSetting"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetSearchSettingByNameAndType">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSear
chSettingByNameAndType"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
```

```
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="CountSearchSettingsForGroupByCriteria">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSe
archSettingsForGroupByCriteria"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetSynonymPagedResult">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSyno
nymPagedResult"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="UpdateSearchSetting">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/UpdateS
earchSetting"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetSearchSettingPagedResult">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetSear
chSettingPagedResult"
          style="document" />
```

```
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveSearchSettingsFromGroupByCriteria">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveS
earchSettingsFromGroupByCriteria"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CountSearchSettingsForContext">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountSe
archSettingsForContext"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetNamedContext">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetName
dContext"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetNamedContextForSearchSetting">
```

```
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetName
dContextForSearchSetting"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddContext">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/AddCont
ext"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CountContextsByCriteria">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountCo
ntextsByCriteria"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CountContextsForSearchSetting">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/CountCo
ntextsForSearchSetting"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
```

```
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveNamedContext">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveN
amedContext"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveContextsByCriteria">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/RemoveC
ontextsByCriteria"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetContextsPagedResult">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/GetCont
extsPagedResult"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="DetachContextsFromSearchSetting">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/KeywordService/DetachC
ontextsFromSearchSetting"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
```

```
         <wsdl:output>
           <soap12:body use="literal" />
         </wsdl:output>
         <wsdl:fault name="AdminExceptionWCFFault">
           <soap12:fault name="AdminExceptionWCFFault" use="literal" />
         </wsdl:fault>
       </wsdl:operation>
     </wsdl:binding>
    <!---------SECURE BINDINGS HERE ------------------!>

 </wsdl:definitions>
```

6.2 SpellCheckerService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="SpellCheckerServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_SpellCheckerService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
   </wsp:ExactlyOne>
  </wsp:Policy>

 <wsp:Policy wsu:Id="BasicHttpBinding_SpellCheckerServiceSecure_policy">
    <wsp:ExactlyOne>
     <wsp:All>
        <http:NtlmAuthentication/>
        <sp:TransportBinding>
          <wsp:Policy>
            <sp:TransportToken>
             <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
               <wsp:Policy>
                   <sp:Basic256/>
               </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
               <wsp:Policy>
                   <sp:Strict/>
               </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
```

```
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
    <wsdl:types>
  <xsd:schema elementFormDefault="qualified"
    targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
        <xsd:import
              namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xsd:complexType name="LinguisticsIdentifierDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="Language" type="tns:Language" />
        <xsd:element minOccurs="0" name="Name" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>
    <xsd:simpleType name="Language">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="ANY" />
        <xsd:enumeration value="AR" />
        <xsd:enumeration value="CS" />
        <xsd:enumeration value="DA" />
        <xsd:enumeration value="DE" />
        <xsd:enumeration value="EL" />
        <xsd:enumeration value="EN" />
        <xsd:enumeration value="ES" />
        <xsd:enumeration value="ET" />
        <xsd:enumeration value="FI" />
        <xsd:enumeration value="FR" />
        <xsd:enumeration value="HE" />
        <xsd:enumeration value="HI" />
        <xsd:enumeration value="HU" />
        <xsd:enumeration value="ID" />
        <xsd:enumeration value="IS" />
        <xsd:enumeration value="IT" />
        <xsd:enumeration value="JA" />
        <xsd:enumeration value="KO" />
        <xsd:enumeration value="LT" />
        <xsd:enumeration value="LV" />
        <xsd:enumeration value="MS" />
        <xsd:enumeration value="NB" />
        <xsd:enumeration value="NL" />
        <xsd:enumeration value="NN" />
        <xsd:enumeration value="NO" />
        <xsd:enumeration value="PL" />
        <xsd:enumeration value="PT" />
        <xsd:enumeration value="RO" />
        <xsd:enumeration value="RU" />
        <xsd:enumeration value="SC" />
        <xsd:enumeration value="SK" />
        <xsd:enumeration value="SL" />
        <xsd:enumeration value="SR" />
        <xsd:enumeration value="SV" />
        <xsd:enumeration value="TR" />
        <xsd:enumeration value="UK" />
        <xsd:enumeration value="UR" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="GetAll">
      <xsd:complexType>
```

```xml
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="GetAllResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetAllResult"
            nillable="true" type="tns:ArrayOfLinguisticsIdentifierDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:complexType name="ArrayOfLinguisticsIdentifierDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="LinguisticsIdentifierDTO" nillable="true"
          type="tns:LinguisticsIdentifierDTO" />
      </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="AdminExceptionWCF">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="Values" nillable="true"
          type="msa:ArrayOfstring" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="AdminExceptionWCF" nillable="true"
        type="tns:AdminExceptionWCF" />

    <xsd:element name="Get">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="sortField" type="tns:SortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:simpleType name="SortField">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Name" />
        <xsd:enumeration value="LastChanged" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:simpleType name="SortDirection">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Ascending" />
        <xsd:enumeration value="Descending" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="GetResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetResult" nillable="true"
            type="tns:ArrayOfLinguisticsIdentifierDTO" />
        </xsd:sequence>
      </xsd:complexType>
```

```xml
    </xsd:element>
    <xsd:element name="Contains">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="tns:LinguisticsIdentifierDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ContainsResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ContainsResult" type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="Clean">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="tns:LinguisticsIdentifierDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="CleanResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="CleanTerms">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="tns:LinguisticsIdentifierDTO" />
          <xsd:element minOccurs="0" name="linguisticTermType"
            type="tns:LinguisticTermType" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:simpleType name="LinguisticTermType">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="INCLUSION" />
        <xsd:enumeration value="EXCLUSION" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="LinguisticTermType" nillable="true"
      type="tns:LinguisticTermType" />
    <xsd:element name="CleanTermsResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="GetAllTerms">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="tns:LinguisticsIdentifierDTO" />
          <xsd:element minOccurs="0" name="linguisticTermType"
            type="tns:LinguisticTermType" />
```

```xsd
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetAllTermsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetAllTermsResult"
             nillable="true" type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetTerms">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
             type="tns:LinguisticsIdentifierDTO" />
            <xsd:element minOccurs="0" name="linguisticTermType"
             type="tns:LinguisticTermType" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetTermsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetTermsResult"
             nillable="true" type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="AddTerm">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
             type="tns:LinguisticsIdentifierDTO" />
            <xsd:element minOccurs="0" name="linguisticTermType"
             type="tns:LinguisticTermType" />
            <xsd:element minOccurs="0" name="term" nillable="true"
             type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="AddTermResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="RemoveTerm">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
             type="tns:LinguisticsIdentifierDTO" />
            <xsd:element minOccurs="0" name="linguisticTermType"
             type="tns:LinguisticTermType" />
            <xsd:element minOccurs="0" name="term" nillable="true"
             type="xsd:string" />
          </xsd:sequence>
```

```
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="RemoveTermResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RemoveTermResult"
              type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsTerm">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="tns:LinguisticsIdentifierDTO" />
            <xsd:element minOccurs="0" name="linguisticTermType"
              type="tns:LinguisticTermType" />
            <xsd:element minOccurs="0" name="term" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsTermResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsTermResult"
              type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:schema>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <xsd:complexType name="ArrayOfstring">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
            nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:schema>



  </wsdl:types>
  <wsdl:message name="SpellCheckerService_GetAll_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAll" />
  </wsdl:message>
  <wsdl:message name="SpellCheckerService_GetAll_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllResponse" />
  </wsdl:message>
  <wsdl:message
    name="SpellCheckerService_GetAll_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SpellCheckerService_Get_InputMessage">
    <wsdl:part name="parameters" element="tns:Get" />
  </wsdl:message>
  <wsdl:message name="SpellCheckerService_Get_OutputMessage">
```

```
      <wsdl:part name="parameters" element="tns:GetResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_Get_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_Contains_InputMessage">
      <wsdl:part name="parameters" element="tns:Contains" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_Contains_OutputMessage">
      <wsdl:part name="parameters" element="tns:ContainsResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_Contains_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_Clean_InputMessage">
      <wsdl:part name="parameters" element="tns:Clean" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_Clean_OutputMessage">
      <wsdl:part name="parameters" element="tns:CleanResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_Clean_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_CleanTerms_InputMessage">
      <wsdl:part name="parameters" element="tns:CleanTerms" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_CleanTerms_OutputMessage">
      <wsdl:part name="parameters" element="tns:CleanTermsResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_CleanTerms_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_GetAllTerms_InputMessage">
      <wsdl:part name="parameters" element="tns:GetAllTerms" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_GetAllTerms_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetAllTermsResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_GetAllTerms_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_GetTerms_InputMessage">
      <wsdl:part name="parameters" element="tns:GetTerms" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_GetTerms_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetTermsResponse" />
    </wsdl:message>
    <wsdl:message
      name="SpellCheckerService_GetTerms_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SpellCheckerService_AddTerm_InputMessage">
      <wsdl:part name="parameters" element="tns:AddTerm" />
    </wsdl:message>
```

```
<wsdl:message name="SpellCheckerService_AddTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:AddTermResponse" />
</wsdl:message>
<wsdl:message
  name="SpellCheckerService_AddTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SpellCheckerService_RemoveTerm_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveTerm" />
</wsdl:message>
<wsdl:message name="SpellCheckerService_RemoveTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveTermResponse" />
</wsdl:message>
<wsdl:message
  name="SpellCheckerService_RemoveTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SpellCheckerService_ContainsTerm_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsTerm" />
</wsdl:message>
<wsdl:message name="SpellCheckerService_ContainsTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:ContainsTermResponse" />
</wsdl:message>
<wsdl:message
  name="SpellCheckerService_ContainsTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:portType name="SpellCheckerService">
  <wsdl:operation name="GetAll">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
All"
      message="tns:SpellCheckerService_GetAll_InputMessage" />
    <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllResponse"
      message="tns:SpellCheckerService_GetAll_OutputMessage" />
    <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllAdminExceptionWCFFault"
      name="AdminExceptionWCFFault"
      message="tns:SpellCheckerService_GetAll_AdminExceptionWCFFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="Get">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
"
      message="tns:SpellCheckerService_Get_InputMessage" />
    <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Response"
      message="tns:SpellCheckerService_Get_OutputMessage" />
    <wsdl:fault
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_Get_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="Contains">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tains"
        message="tns:SpellCheckerService_Contains_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsResponse"
        message="tns:SpellCheckerService_Contains_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_Contains_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="Clean">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
an"
        message="tns:SpellCheckerService_Clean_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anResponse"
        message="tns:SpellCheckerService_Clean_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_Clean_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CleanTerms">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTerms"
        message="tns:SpellCheckerService_CleanTerms_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsResponse"
        message="tns:SpellCheckerService_CleanTerms_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_CleanTerms_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetAllTerms">
```

```
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTerms"
          message="tns:SpellCheckerService_GetAllTerms_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsResponse"
          message="tns:SpellCheckerService_GetAllTerms_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SpellCheckerService_GetAllTerms_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetTerms">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Terms"
          message="tns:SpellCheckerService_GetTerms_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsResponse"
          message="tns:SpellCheckerService_GetTerms_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SpellCheckerService_GetTerms_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="AddTerm">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
Term"
          message="tns:SpellCheckerService_AddTerm_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermResponse"
          message="tns:SpellCheckerService_AddTerm_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SpellCheckerService_AddTerm_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveTerm">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTerm"
          message="tns:SpellCheckerService_RemoveTerm_InputMessage" />
        <wsdl:output
```

```
                                wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermResponse"
        message="tns:SpellCheckerService_RemoveTerm_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_RemoveTerm_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="ContainsTerm">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTerm"
        message="tns:SpellCheckerService_ContainsTerm_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermResponse"
        message="tns:SpellCheckerService_ContainsTerm_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SpellCheckerService_ContainsTerm_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_SpellCheckerService" type="tns: SpellCheckerService">
<wsp:PolicyReference URI="#BasicHttpBinding_SpellChecker_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>          <wsdl:operation
name="GetAll">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetA
ll"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="Get">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
```

```
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="Contains">
      <soap12:operation
```

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Contains"

```
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="Clean">
      <soap12:operation
```

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Clean"

```
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CleanTerms">
      <soap12:operation
```

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/CleanTerms"

```
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllTerms">
      <soap12:operation
```

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetAllTerms"

```
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
```

```
            </wsdl:input>
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AdminExceptionWCFFault">
              <soap12:fault name="AdminExceptionWCFFault" use="literal" />
            </wsdl:fault>
          </wsdl:operation>
          <wsdl:operation name="GetTerms">
            <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetT
  erms"
                style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AdminExceptionWCFFault">
              <soap12:fault name="AdminExceptionWCFFault" use="literal" />
            </wsdl:fault>
          </wsdl:operation>
          <wsdl:operation name="AddTerm">
            <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/AddT
  erm"
                style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AdminExceptionWCFFault">
              <soap12:fault name="AdminExceptionWCFFault" use="literal" />
            </wsdl:fault>
          </wsdl:operation>
          <wsdl:operation name="RemoveTerm">
            <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Remo
  veTerm"
                style="document" />
            <wsdl:input>
              <soap12:body use="literal" />
            </wsdl:input>
            <wsdl:output>
              <soap12:body use="literal" />
            </wsdl:output>
            <wsdl:fault name="AdminExceptionWCFFault">
              <soap12:fault name="AdminExceptionWCFFault" use="literal" />
            </wsdl:fault>
          </wsdl:operation>
          <wsdl:operation name="ContainsTerm">
            <soap12:operation
```

```
       soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cont
ainsTerm"
         style="document" />
       <wsdl:input>
         <soap12:body use="literal" />
       </wsdl:input>
       <wsdl:output>
         <soap12:body use="literal" />
       </wsdl:output>
       <wsdl:fault name="AdminExceptionWCFFault">
         <soap12:fault name="AdminExceptionWCFFault" use="literal" />
       </wsdl:fault>
     </wsdl:operation>
   </wsdl:binding>
<!---------SECURE BINDINGS HERE ------------------>

</wsdl:definitions>
```

6.3   TermEntityExtractorService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="TermEntityExtractorServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_TermEntityExtractorService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

<wsp:Policy wsu:Id="BasicHttpBinding_TermEntityExtractorServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
         <http:NtlmAuthentication/>
         <sp:TransportBinding>
           <wsp:Policy>
             <sp:TransportToken>
              <wsp:Policy>
                 <sp:HttpsToken RequireClientCertificate="false"/>
             </wsp:Policy>
             </sp:TransportToken>
             <sp:AlgorithmSuite>
                <wsp:Policy>
                    <sp:Basic256/>
                </wsp:Policy>
             </sp:AlgorithmSuite>
```

```
            <sp:Layout>
               <wsp:Policy>
                   <sp:Strict/>
               </wsp:Policy>
            </sp:Layout>
         </wsp:Policy>
      </sp:TransportBinding>
   </wsp:All>
 </wsp:ExactlyOne>
</wsp:Policy>


  <wsdl:types>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">

      <xsd:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

      <xsd:complexType name="LinguisticsIdentifierDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="Language" type="tns:Language" />
          <xsd:element minOccurs="0" name="Name" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
      <xsd:simpleType name="Language">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="ANY" />
          <xsd:enumeration value="AR" />
          <xsd:enumeration value="CS" />
          <xsd:enumeration value="DA" />
          <xsd:enumeration value="DE" />
          <xsd:enumeration value="EL" />
          <xsd:enumeration value="EN" />
          <xsd:enumeration value="ES" />
          <xsd:enumeration value="ET" />
          <xsd:enumeration value="FI" />
          <xsd:enumeration value="FR" />
          <xsd:enumeration value="HE" />
          <xsd:enumeration value="HI" />
          <xsd:enumeration value="HU" />
          <xsd:enumeration value="ID" />
          <xsd:enumeration value="IS" />
          <xsd:enumeration value="IT" />
          <xsd:enumeration value="JA" />
          <xsd:enumeration value="KO" />
          <xsd:enumeration value="LT" />
          <xsd:enumeration value="LV" />
          <xsd:enumeration value="MS" />
          <xsd:enumeration value="NB" />
          <xsd:enumeration value="NL" />
          <xsd:enumeration value="NN" />
          <xsd:enumeration value="NO" />
          <xsd:enumeration value="PL" />
          <xsd:enumeration value="PT" />
          <xsd:enumeration value="RO" />
          <xsd:enumeration value="RU" />
```

```xml
        <xsd:enumeration value="SC" />
        <xsd:enumeration value="SK" />
        <xsd:enumeration value="SL" />
        <xsd:enumeration value="SR" />
        <xsd:enumeration value="SV" />
        <xsd:enumeration value="TR" />
        <xsd:enumeration value="UK" />
        <xsd:enumeration value="UR" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="GetAll">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="GetAllResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetAllResult"
            nillable="true" type="tns:ArrayOfLinguisticsIdentifierDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:complexType name="ArrayOfLinguisticsIdentifierDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="LinguisticsIdentifierDTO" nillable="true"
          type="tns:LinguisticsIdentifierDTO" />
      </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="AdminExceptionWCF">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="Values" nillable="true"
          type="msa:ArrayOfstring" />
      </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="AdminExceptionWCF" nillable="true" type="tns:AdminExceptionWCF" />
    <xsd:element name="Get">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="sortField" type="tns:SortField" />
          <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:simpleType name="SortField">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Name" />
        <xsd:enumeration value="LastChanged" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:simpleType name="SortDirection">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Ascending" />
        <xsd:enumeration value="Descending" />
```

```xml
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:element name="GetResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetResult" nillable="true"
              type="tns:ArrayOfLinguisticsIdentifierDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Contains">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="tns:LinguisticsIdentifierDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsResult" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Clean">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="tns:LinguisticsIdentifierDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="CleanResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="CleanTerms">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="tns:LinguisticsIdentifierDTO" />
            <xsd:element minOccurs="0" name="linguisticTermType"
              type="tns:LinguisticTermType" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:simpleType name="LinguisticTermType">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="INCLUSION" />
          <xsd:enumeration value="EXCLUSION" />
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:element name="CleanTermsResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
```

```xml
<xsd:element name="GetAllTerms">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
        type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType"
        type="tns:LinguisticTermType" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="GetAllTermsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllTermsResult"
        nillable="true" type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="GetTerms">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
        type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType"
        type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
      <xsd:element minOccurs="0" name="offset" type="xsd:int" />
      <xsd:element minOccurs="0" name="count" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="GetTermsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetTermsResult"
        nillable="true" type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddTerm">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
        type="tns:LinguisticsIdentifierDTO" />
      <xsd:element minOccurs="0" name="linguisticTermType"
        type="tns:LinguisticTermType" />
      <xsd:element minOccurs="0" name="term" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddTermResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
<xsd:element name="RemoveTerm">
  <xsd:complexType>
    <xsd:sequence>
```

```
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="tns:LinguisticsIdentifierDTO" />
              <xsd:element minOccurs="0" name="linguisticTermType"
                type="tns:LinguisticTermType" />
              <xsd:element minOccurs="0" name="term" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="RemoveTermResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="RemoveTermResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="ContainsTerm">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="tns:LinguisticsIdentifierDTO" />
              <xsd:element minOccurs="0" name="linguisticTermType"
                type="tns:LinguisticTermType" />
              <xsd:element minOccurs="0" name="term" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="ContainsTermResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="ContainsTermResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
      </xsd:schema>

      <xsd:schema elementFormDefault="qualified"
        targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
        <xsd:complexType name="ArrayOfstring">
          <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
              nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="ArrayOfstring" nillable="true"
          type="msa:ArrayOfstring" />
      </xsd:schema>

  </wsdl:types>
  <wsdl:message name="TermEntityExtractorService_GetAll_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAll" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_GetAll_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllResponse" />
  </wsdl:message>
  <wsdl:message
```

```
    name="TermEntityExtractorService_GetAll_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Get_InputMessage">
    <wsdl:part name="parameters" element="tns:Get" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Get_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetResponse" />
  </wsdl:message>
  <wsdl:message
    name="TermEntityExtractorService_Get_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Contains_InputMessage">
    <wsdl:part name="parameters" element="tns:Contains" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Contains_OutputMessage">
    <wsdl:part name="parameters" element="tns:ContainsResponse" />
  </wsdl:message>
  <wsdl:message
    name="TermEntityExtractorService_Contains_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Clean_InputMessage">
    <wsdl:part name="parameters" element="tns:Clean" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_Clean_OutputMessage">
    <wsdl:part name="parameters" element="tns:CleanResponse" />
  </wsdl:message>
  <wsdl:message
    name="TermEntityExtractorService_Clean_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_CleanTerms_InputMessage">
    <wsdl:part name="parameters" element="tns:CleanTerms" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_CleanTerms_OutputMessage">
    <wsdl:part name="parameters" element="tns:CleanTermsResponse" />
  </wsdl:message>
  <wsdl:message
    name="TermEntityExtractorService_CleanTerms_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_GetAllTerms_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllTerms" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_GetAllTerms_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllTermsResponse" />
  </wsdl:message>
  <wsdl:message
    name="TermEntityExtractorService_GetAllTerms_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_GetTerms_InputMessage">
    <wsdl:part name="parameters" element="tns:GetTerms" />
  </wsdl:message>
  <wsdl:message name="TermEntityExtractorService_GetTerms_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTermsResponse" />
  </wsdl:message>
```

```
<wsdl:message
  name="TermEntityExtractorService_GetTerms_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_AddTerm_InputMessage">
  <wsdl:part name="parameters" element="tns:AddTerm" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_AddTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:AddTermResponse" />
</wsdl:message>
<wsdl:message
  name="TermEntityExtractorService_AddTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_RemoveTerm_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveTerm" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_RemoveTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveTermResponse" />
</wsdl:message>
<wsdl:message
  name="TermEntityExtractorService_RemoveTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_ContainsTerm_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsTerm" />
</wsdl:message>
<wsdl:message name="TermEntityExtractorService_ContainsTerm_OutputMessage">
  <wsdl:part name="parameters" element="tns:ContainsTermResponse" />
</wsdl:message>
<wsdl:message
  name="TermEntityExtractorService_ContainsTerm_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:portType name="TermEntityExtractorService">
  <wsdl:operation name="GetAll">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
All"
      message="tns:TermEntityExtractorService_GetAll_InputMessage" />
    <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllResponse"
      message="tns:TermEntityExtractorService_GetAll_OutputMessage" />
    <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllAdminExceptionWCFFault"
      name="AdminExceptionWCFFault"
      message="tns:TermEntityExtractorService_GetAll_AdminExceptionWCFFault_FaultMessage"
/>
  </wsdl:operation>
  <wsdl:operation name="Get">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
"
      message="tns:TermEntityExtractorService_Get_InputMessage" />
```

```
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Response"
        message="tns:TermEntityExtractorService_Get_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:TermEntityExtractorService_Get_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="Contains">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tains"
        message="tns:TermEntityExtractorService_Contains_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsResponse"
        message="tns:TermEntityExtractorService_Contains_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:TermEntityExtractorService_Contains_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="Clean">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
an"
        message="tns:TermEntityExtractorService_Clean_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anResponse"
        message="tns:TermEntityExtractorService_Clean_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:TermEntityExtractorService_Clean_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CleanTerms">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTerms"
        message="tns:TermEntityExtractorService_CleanTerms_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsResponse"
        message="tns:TermEntityExtractorService_CleanTerms_OutputMessage" />
      <wsdl:fault
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cle
anTermsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:TermEntityExtractorService_CleanTerms_AdminExceptionWCFFault_FaultMessage" />
     </wsdl:operation>
     <wsdl:operation name="GetAllTerms">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTerms"
        message="tns:TermEntityExtractorService_GetAllTerms_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsResponse"
        message="tns:TermEntityExtractorService_GetAllTerms_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
AllTermsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:TermEntityExtractorService_GetAllTerms_AdminExceptionWCFFault_FaultMessage" />
     </wsdl:operation>
     <wsdl:operation name="GetTerms">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
Terms"
        message="tns:TermEntityExtractorService_GetTerms_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsResponse"
        message="tns:TermEntityExtractorService_GetTerms_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get
TermsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:TermEntityExtractorService_GetTerms_AdminExceptionWCFFault_FaultMessage"
/>
     </wsdl:operation>
     <wsdl:operation name="AddTerm">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
Term"
        message="tns:TermEntityExtractorService_AddTerm_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermResponse"
        message="tns:TermEntityExtractorService_AddTerm_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Add
TermAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
```

```
          message="tns:TermEntityExtractorService_AddTerm_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="RemoveTerm">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTerm"
        message="tns:TermEntityExtractorService_RemoveTerm_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermResponse"
        message="tns:TermEntityExtractorService_RemoveTerm_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Rem
oveTermAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:TermEntityExtractorService_RemoveTerm_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="ContainsTerm">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTerm"
        message="tns:TermEntityExtractorService_ContainsTerm_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermResponse"
        message="tns:TermEntityExtractorService_ContainsTerm_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Con
tainsTermAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:TermEntityExtractorService_ContainsTerm_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_TermEntityExtractorService" type="tns:
TermEntityExtractorService">
<wsp:PolicyReference URI="#BasicHttpBinding_TermEntityExtractorService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>    <wsdl:operation
name="GetAll">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetA
ll"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
```

```
      </wsdl:operation>
      <wsdl:operation name="Get">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Get"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Contains">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cont
  ains"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Clean">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Clea
  n"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="CleanTerms">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Clea
  nTerms"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
```

```
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllTerms">
      <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetA
  llTerms"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetTerms">
      <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/GetT
  erms"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddTerm">
      <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/AddT
  erm"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="RemoveTerm">
      <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Remo
  veTerm"
        style="document" />
      <wsdl:input>
```

```
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ContainsTerm">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticService/Cont
ainsTerm"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
    </wsdl:binding>
<!---------SECURE BINDINGS HERE ------------------->

</wsdl:definitions>
```

6.4 PersistedDictionaryService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="PersistedDictionaryServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_PersistedDictionaryService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

  <wsp:Policy wsu:Id="BasicHttpBinding_PersistedDictionaryServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
        <sp:TransportBinding>
```

```xml
          <wsp:Policy>
             <sp:TransportToken>
              <wsp:Policy>
                 <sp:HttpsToken RequireClientCertificate="false"/>
             </wsp:Policy>
             </sp:TransportToken>
             <sp:AlgorithmSuite>
                 <wsp:Policy>
                     <sp:Basic256/>
                 </wsp:Policy>
             </sp:AlgorithmSuite>
             <sp:Layout>
                 <wsp:Policy>
                     <sp:Strict/>
                 </wsp:Policy>
             </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
     </wsp:All>
   </wsp:ExactlyOne>
 </wsp:Policy>

   <wsdl:types>

     <xsd:schema elementFormDefault="qualified"
       targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
        <xsd:import
          namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
        <xsd:import
          namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel" />
        <xsd:import
          namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic" />

        <xsd:element name="IsDirty">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="IsDirtyResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="IsDirtyResult" type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:complexType name="AdminExceptionWCF">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="Values" nillable="true"
              type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="AdminExceptionWCF" nillable="true"
          type="tns:AdminExceptionWCF" />
        <xsd:element name="SetDirty">
```

```xml
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="SetDirtyResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntriesAndSetClean">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntriesAndSetCleanResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEntriesAndSetCleanResult"
              nillable="true"
              type="sco:ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Add">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="AddResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ChangeName">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="oldName" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="newName" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ChangeNameResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetAll">
        <xsd:complexType>
```

```xml
            <xsd:sequence />
          </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetAllResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetAllResult"
              nillable="true" type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Get">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="field" type="tns:SortField" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:simpleType name="SortField">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="Name" />
          <xsd:enumeration value="LastChanged" />
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:simpleType name="SortDirection">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="Ascending" />
          <xsd:enumeration value="Descending" />
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:element name="GetResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetResult" nillable="true"
              type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Contains">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsResult" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="Remove">
        <xsd:complexType>
          <xsd:sequence>
```

```
        <xsd:element minOccurs="0" name="name" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="RemoveResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="RemoveResult" type="xsd:boolean" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="Count">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="CountResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="CountResult" type="xsd:int" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="RemoveAll">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="RemoveAllResponse">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="Clear">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="name" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="ClearResponse">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="AddEntry">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="name" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="entry"
          type="scg:KeyValuePairOfstringstring" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="AddEntryResponse">
    <xsd:complexType>
```

```xml
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetAllEntries">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetAllEntriesResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetAllEntriesResult"
              nillable="true" type="msa:ArrayOfKeyValueOfstringstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntries">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="direction" type="tns:SortDirection" />
            <xsd:element minOccurs="0" name="offset" type="xsd:int" />
            <xsd:element minOccurs="0" name="count" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntriesResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEntriesResult"
              nillable="true" type="msa:ArrayOfKeyValueOfstringstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsEntry">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="entry"
              type="scg:KeyValuePairOfstringstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsEntryResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsEntryResult"
              type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ContainsEntryKey">
        <xsd:complexType>
          <xsd:sequence>
```

```
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="key" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="ContainsEntryKeyResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="ContainsEntryKeyResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="RemoveEntry">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="entry"
                type="scg:KeyValuePairOfstringstring" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="RemoveEntryResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="RemoveEntryResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="RemoveEntryKey">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="key" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="RemoveEntryKeyResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="RemoveEntryKeyResult"
                type="xsd:boolean" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="GetEntryValue">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="key" nillable="true"
                type="xsd:string" />
            </xsd:sequence>
```

```xml
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntryValueResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEntryValueResult"
              nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="SetEntryValue">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="key" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="value" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="SetEntryValueResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntryKeys">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntryKeysResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEntryKeysResult"
              nillable="true" type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntryValues">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="GetEntryValuesResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetEntryValuesResult"
              nillable="true" type="msa:ArrayOfstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
```

```xml
<xsd:element name="CountEntries">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="CountEntriesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CountEntriesResult"
        type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
</xsd:schema>

<xsd:schema elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <xsd:complexType name="ArrayOfstring">
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
        nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="ArrayOfKeyValueOfstringstring">
    <xsd:annotation>
      <xsd:appinfo>
        <IsDictionary
          xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsDictionary>
      </xsd:appinfo>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element minOccurs="0" maxOccurs="unbounded"
        name="KeyValueOfstringstring">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="Key" nillable="true" type="xsd:string" />
            <xsd:element name="Value" nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>

<xsd:schema elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel">
  <xsd:import
    namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic" />
  <xsd:complexType
    name="ReadOnlyCollectionOfKeyValuePairOfstringstringR8RmUPp7">
    <xsd:annotation>
      <xsd:appinfo>
        <GenericType Name="ReadOnlyCollectionOf{0}{#}"
          Namespace="http://schemas.datacontract.org/2004/07/System.Collections.ObjectModel"
```

```
                  xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
                  <GenericParameter Name="KeyValuePairOf{0}{1}{#}"

    Namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic">
                    <GenericParameter Name="string"
                      Namespace="http://www.w3.org/2001/XMLSchema" />
                    <GenericParameter Name="string"
                      Namespace="http://www.w3.org/2001/XMLSchema" />
                  </GenericParameter>
              </GenericType>
            </xsd:appinfo>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="list" nillable="true"
              type="scg:ArrayOfKeyValuePairOfstringstring" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:schema>

      <xsd:schema elementFormDefault="qualified"
        targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic">
        <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
        <xsd:complexType name="ArrayOfKeyValuePairOfstringstring">
          <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded"
              name="KeyValuePairOfstringstring" type="scg:KeyValuePairOfstringstring" />
          </xsd:sequence>
        </xsd:complexType>
        <xsd:complexType name="KeyValuePairOfstringstring">
          <xsd:annotation>
            <xsd:appinfo>
              <GenericType Name="KeyValuePairOf{0}{1}{#}"
                Namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic"
                xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
                <GenericParameter Name="string"
                  Namespace="http://www.w3.org/2001/XMLSchema" />
                <GenericParameter Name="string"
                  Namespace="http://www.w3.org/2001/XMLSchema" />
              </GenericType>
              <IsValueType
    xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsValueType>
            </xsd:appinfo>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="key" nillable="true" type="xsd:string" />
            <xsd:element name="value" nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:schema>

    </wsdl:types>
    <wsdl:message name="PersistedDictionaryService_IsDirty_InputMessage">
      <wsdl:part name="parameters" element="tns:IsDirty" />
    </wsdl:message>
    <wsdl:message name="PersistedDictionaryService_IsDirty_OutputMessage">
      <wsdl:part name="parameters" element="tns:IsDirtyResponse" />
    </wsdl:message>
    <wsdl:message
      name="PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage">
```

```
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_SetDirty_InputMessage">
    <wsdl:part name="parameters" element="tns:SetDirty" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_SetDirty_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetDirtyResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_GetEntriesAndSetClean_InputMessage">
    <wsdl:part name="parameters" element="tns:GetEntriesAndSetClean" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetEntriesAndSetCleanResponse" />
  </wsdl:message>
  <wsdl:message

 name="PersistedDictionaryService_GetEntriesAndSetClean_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Add_InputMessage">
    <wsdl:part name="parameters" element="tns:Add" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Add_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Add_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_ChangeName_InputMessage">
    <wsdl:part name="parameters" element="tns:ChangeName" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_ChangeName_OutputMessage">
    <wsdl:part name="parameters" element="tns:ChangeNameResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_GetAll_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAll" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_GetAll_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Get_InputMessage">
    <wsdl:part name="parameters" element="tns:Get" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Get_OutputMessage">
```

```
    <wsdl:part name="parameters" element="tns:GetResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Contains_InputMessage">
    <wsdl:part name="parameters" element="tns:Contains" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Contains_OutputMessage">
    <wsdl:part name="parameters" element="tns:ContainsResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Contains_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Remove_InputMessage">
    <wsdl:part name="parameters" element="tns:Remove" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Remove_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Count_InputMessage">
    <wsdl:part name="parameters" element="tns:Count" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Count_OutputMessage">
    <wsdl:part name="parameters" element="tns:CountResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Count_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_RemoveAll_InputMessage">
    <wsdl:part name="parameters" element="tns:RemoveAll" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_RemoveAll_OutputMessage">
    <wsdl:part name="parameters" element="tns:RemoveAllResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Clear_InputMessage">
    <wsdl:part name="parameters" element="tns:Clear" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_Clear_OutputMessage">
    <wsdl:part name="parameters" element="tns:ClearResponse" />
  </wsdl:message>
  <wsdl:message
    name="PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="PersistedDictionaryService_AddEntry_InputMessage">
    <wsdl:part name="parameters" element="tns:AddEntry" />
  </wsdl:message>
```

```
<wsdl:message name="PersistedDictionaryService_AddEntry_OutputMessage">
  <wsdl:part name="parameters" element="tns:AddEntryResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_AddEntry_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetAllEntries_InputMessage">
  <wsdl:part name="parameters" element="tns:GetAllEntries" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetAllEntries_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetAllEntriesResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_GetAllEntries_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntries_InputMessage">
  <wsdl:part name="parameters" element="tns:GetEntries" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntries_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEntriesResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_GetEntries_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_ContainsEntry_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsEntry" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_ContainsEntry_OutputMessage">
  <wsdl:part name="parameters" element="tns:ContainsEntryResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_ContainsEntry_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_ContainsEntryKey_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsEntryKey" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_ContainsEntryKey_OutputMessage">
  <wsdl:part name="parameters" element="tns:ContainsEntryKeyResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_ContainsEntryKey_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_RemoveEntry_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveEntry" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_RemoveEntry_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveEntryResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
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<wsdl:message name="PersistedDictionaryService_RemoveEntryKey_InputMessage">
  <wsdl:part name="parameters" element="tns:RemoveEntryKey" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_RemoveEntryKey_OutputMessage">
  <wsdl:part name="parameters" element="tns:RemoveEntryKeyResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_RemoveEntryKey_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryValue_InputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryValue" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryValue_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryValueResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_GetEntryValue_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_SetEntryValue_InputMessage">
  <wsdl:part name="parameters" element="tns:SetEntryValue" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_SetEntryValue_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetEntryValueResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryKeys_InputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryKeys" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryKeys_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryKeysResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_GetEntryKeys_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryValues_InputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryValues" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_GetEntryValues_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetEntryValuesResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_GetEntryValues_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_CountEntries_InputMessage">
  <wsdl:part name="parameters" element="tns:CountEntries" />
</wsdl:message>
<wsdl:message name="PersistedDictionaryService_CountEntries_OutputMessage">
  <wsdl:part name="parameters" element="tns:CountEntriesResponse" />
</wsdl:message>
<wsdl:message
  name="PersistedDictionaryService_CountEntries_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
```

```
      </wsdl:message>
      <wsdl:portType name="PersistedDictionaryService">
        <wsdl:operation name="IsDirty">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirty"
            message="tns:PersistedDictionaryService_IsDirty_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirtyResponse"
            message="tns:PersistedDictionaryService_IsDirty_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/IsDirtyAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:PersistedDictionaryService_IsDirty_AdminExceptionWCFFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="SetDirty">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirty"
            message="tns:PersistedDictionaryService_SetDirty_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirtyResponse"
            message="tns:PersistedDictionaryService_SetDirty_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/SetDirtyAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:PersistedDictionaryService_SetDirty_AdminExceptionWCFFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="GetEntriesAndSetClean">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetClean"
            message="tns:PersistedDictionaryService_GetEntriesAndSetClean_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetCleanResponse"
            message="tns:PersistedDictionaryService_GetEntriesAndSetClean_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntriesAndSetCleanAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_GetEntriesAndSetClean_AdminExceptionWCFFault_FaultMes
sage" />
        </wsdl:operation>
        <wsdl:operation name="Add">
```

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      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Add"
        message="tns:PersistedDictionaryService_Add_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddResponse"
        message="tns:PersistedDictionaryService_Add_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:PersistedDictionaryService_Add_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="ChangeName">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeName"
        message="tns:PersistedDictionaryService_ChangeName_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeNameResponse"
        message="tns:PersistedDictionaryService_ChangeName_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ChangeNameAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_ChangeName_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetAll">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAll"
        message="tns:PersistedDictionaryService_GetAll_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllResponse"
        message="tns:PersistedDictionaryService_GetAll_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAllAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:PersistedDictionaryService_GetAll_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="Get">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Get"
        message="tns:PersistedDictionaryService_Get_InputMessage" />
```

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          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetResponse"
          message="tns:PersistedDictionaryService_Get_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:PersistedDictionaryService_Get_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="Contains">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Contains"
          message="tns:PersistedDictionaryService_Contains_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsResponse"
          message="tns:PersistedDictionaryService_Contains_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:PersistedDictionaryService_Contains_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="Remove">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Remove"
          message="tns:PersistedDictionaryService_Remove_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveResponse"
          message="tns:PersistedDictionaryService_Remove_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:PersistedDictionaryService_Remove_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="Count">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Count"
          message="tns:PersistedDictionaryService_Count_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountResponse"
          message="tns:PersistedDictionaryService_Count_OutputMessage" />
```

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        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:PersistedDictionaryService_Count_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveAll">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAll"
          message="tns:PersistedDictionaryService_RemoveAll_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAllResponse"
          message="tns:PersistedDictionaryService_RemoveAll_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveAllAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_RemoveAll_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="Clear">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/Clear"
          message="tns:PersistedDictionaryService_Clear_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ClearResponse"
          message="tns:PersistedDictionaryService_Clear_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ClearAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:PersistedDictionaryService_Clear_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="AddEntry">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntry"
          message="tns:PersistedDictionaryService_AddEntry_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntryResponse"
          message="tns:PersistedDictionaryService_AddEntry_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/AddEntryAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
```

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                   message="tns:PersistedDictionaryService_AddEntry_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="GetAllEntries">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetAllEntries"
            message="tns:PersistedDictionaryService_GetAllEntries_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetAllEntriesResponse"
            message="tns:PersistedDictionaryService_GetAllEntries_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetAllEntriesAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

  message="tns:PersistedDictionaryService_GetAllEntries_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetEntries">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetEntries"
            message="tns:PersistedDictionaryService_GetEntries_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetEntriesResponse"
            message="tns:PersistedDictionaryService_GetEntries_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/GetEntriesAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

  message="tns:PersistedDictionaryService_GetEntries_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="ContainsEntry">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/ContainsEntry"
            message="tns:PersistedDictionaryService_ContainsEntry_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/ContainsEntryResponse"
            message="tns:PersistedDictionaryService_ContainsEntry_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
  rvice/ContainsEntryAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

  message="tns:PersistedDictionaryService_ContainsEntry_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="ContainsEntryKey">
```

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        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKey"
          message="tns:PersistedDictionaryService_ContainsEntryKey_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKeyResponse"
          message="tns:PersistedDictionaryService_ContainsEntryKey_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/ContainsEntryKeyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_ContainsEntryKey_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="RemoveEntry">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntry"
          message="tns:PersistedDictionaryService_RemoveEntry_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryResponse"
          message="tns:PersistedDictionaryService_RemoveEntry_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_RemoveEntry_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="RemoveEntryKey">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryKey"
          message="tns:PersistedDictionaryService_RemoveEntryKey_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryKeyResponse"
          message="tns:PersistedDictionaryService_RemoveEntryKey_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/RemoveEntryKeyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_RemoveEntryKey_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="GetEntryValue">
        <wsdl:input
```

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       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryValue"
               message="tns:PersistedDictionaryService_GetEntryValue_InputMessage" />
             <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryValueResponse"
               message="tns:PersistedDictionaryService_GetEntryValue_OutputMessage" />
             <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryValueAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

       message="tns:PersistedDictionaryService_GetEntryValue_AdminExceptionWCFFault_FaultMessage" />
           </wsdl:operation>
           <wsdl:operation name="SetEntryValue">
             <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/SetEntryValue"
               message="tns:PersistedDictionaryService_SetEntryValue_InputMessage" />
             <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/SetEntryValueResponse"
               message="tns:PersistedDictionaryService_SetEntryValue_OutputMessage" />
             <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/SetEntryValueAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

       message="tns:PersistedDictionaryService_SetEntryValue_AdminExceptionWCFFault_FaultMessage" />
           </wsdl:operation>
           <wsdl:operation name="GetEntryKeys">
             <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryKeys"
               message="tns:PersistedDictionaryService_GetEntryKeys_InputMessage" />
             <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryKeysResponse"
               message="tns:PersistedDictionaryService_GetEntryKeys_OutputMessage" />
             <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryKeysAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

       message="tns:PersistedDictionaryService_GetEntryKeys_AdminExceptionWCFFault_FaultMessage" />
           </wsdl:operation>
           <wsdl:operation name="GetEntryValues">
             <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
       rvice/GetEntryValues"
               message="tns:PersistedDictionaryService_GetEntryValues_InputMessage" />
```

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          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValuesResponse"
          message="tns:PersistedDictionaryService_GetEntryValues_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/GetEntryValuesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_GetEntryValues_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="CountEntries">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountEntries"
          message="tns:PersistedDictionaryService_CountEntries_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountEntriesResponse"
          message="tns:PersistedDictionaryService_CountEntries_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySe
rvice/CountEntriesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:PersistedDictionaryService_CountEntries_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_PersistedDictionaryService" type="tns:
PersistedDictionaryService">
<wsp:PolicyReference URI="#BasicHttpBinding_PersistedDictionaryService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>          <wsdl:operation
name="IsDirty">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/IsDirty"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="SetDirty">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/SetDirty"
          style="document" />
        <wsdl:input>
```

```
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetEntriesAndSetClean">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetEntriesAndSetClean"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Add">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/Add"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ChangeName">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/ChangeName"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAll">
        <soap12:operation
```

```
      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/GetAll"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Get">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/Get"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Contains">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/Contains"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Remove">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
vice/Remove"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
```

```
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Count">
        <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
 vice/Count"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="RemoveAll">
        <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
 vice/RemoveAll"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="Clear">
        <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
 vice/Clear"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="AddEntry">
        <soap12:operation

 soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
 vice/AddEntry"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
```

```
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetAllEntries">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetAllEntries"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetEntries">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetEntries"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ContainsEntry">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/ContainsEntry"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="ContainsEntryKey">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/ContainsEntryKey"
          style="document" />
```

```
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="RemoveEntry">
          <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/RemoveEntry"
          style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="RemoveEntryKey">
          <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/RemoveEntryKey"
          style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetEntryValue">
          <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetEntryValue"
          style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="SetEntryValue">
```

```
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/SetEntryValue"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetEntryKeys">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetEntryKeys"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetEntryValues">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/GetEntryValues"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="CountEntries">
        <soap12:operation

  soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/PersistedDictionarySer
  vice/CountEntries"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
```

```
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
    </wsdl:binding>
  <!---------SECURE BINDINGS HERE ------------------>

  </wsdl:definitions>
```

6.5 CompiledDictionaryService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="CompiledDictionaryServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_CompiledDictionaryService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
   </wsp:ExactlyOne>
  </wsp:Policy>

 <wsp:Policy wsu:Id="BasicHttpBinding_CompiledDictionaryServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
         <http:NtlmAuthentication/>
         <sp:TransportBinding>
           <wsp:Policy>
             <sp:TransportToken>
              <wsp:Policy>
                 <sp:HttpsToken RequireClientCertificate="false"/>
              </wsp:Policy>
             </sp:TransportToken>
             <sp:AlgorithmSuite>
                <wsp:Policy>
                   <sp:Basic256/>
                </wsp:Policy>
             </sp:AlgorithmSuite>
             <sp:Layout>
                <wsp:Policy>
                   <sp:Strict/>
                </wsp:Policy>
             </sp:Layout>
           </wsp:Policy>
         </sp:TransportBinding>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
```

```xml
<wsdl:types>

  <xsd:schema elementFormDefault="qualified"
    targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
    <xsd:import
      namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xsd:import
      namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic" />

    <xsd:element name="CreateCompiledDictionary">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="input" nillable="true"
            type="scg:ArrayOfKeyValuePairOfstringstring" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CreateCompiledDictionaryResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="CreateCompiledDictionaryResult" nillable="true" type="xsd:anyURI" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="AdminExceptionWCF">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="Values" nillable="true"
          type="msa:ArrayOfstring" />
      </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="AdminExceptionWCF" nillable="true" type="tns:AdminExceptionWCF" />
  </xsd:schema>

  <xsd:schema elementFormDefault="qualified"
    targetNamespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic">

    <xsd:complexType name="ArrayOfKeyValuePairOfstringstring">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="KeyValuePairOfstringstring" type="scg:KeyValuePairOfstringstring" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="KeyValuePairOfstringstring">
      <xsd:annotation>
        <xsd:appinfo>
          <GenericType Name="KeyValuePairOf{0}{1}{#}"
            Namespace="http://schemas.datacontract.org/2004/07/System.Collections.Generic"
            xmlns="http://schemas.microsoft.com/2003/10/Serialization/">
            <GenericParameter Name="string"
              Namespace="http://www.w3.org/2001/XMLSchema" />
            <GenericParameter Name="string"
```

```
                Namespace="http://www.w3.org/2001/XMLSchema" />
              </GenericType>
              <IsValueType
xmlns="http://schemas.microsoft.com/2003/10/Serialization/">true</IsValueType>
          </xsd:appinfo>
        </xsd:annotation>
        <xsd:sequence>
          <xsd:element name="key" nillable="true" type="xsd:string" />
          <xsd:element name="value" nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:schema>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
      <xsd:complexType name="ArrayOfstring">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
            nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:schema>

  </wsdl:types>

  <wsdl:message
    name="CompiledDictionaryService_CreateCompiledDictionary_InputMessage">
    <wsdl:part name="parameters" element="tns:CreateCompiledDictionary" />
  </wsdl:message>
  <wsdl:message
    name="CompiledDictionaryService_CreateCompiledDictionary_OutputMessage">
    <wsdl:part name="parameters" element="tns:CreateCompiledDictionaryResponse" />
  </wsdl:message>
  <wsdl:message

name="CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault_FaultMessage"
>
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:portType name="CompiledDictionaryService">
    <wsdl:operation name="CreateCompiledDictionary">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionary"
        message="tns:CompiledDictionaryService_CreateCompiledDictionary_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionaryResponse"
        message="tns:CompiledDictionaryService_CreateCompiledDictionary_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionarySer
vice/CreateCompiledDictionaryAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:CompiledDictionaryService_CreateCompiledDictionary_AdminExceptionWCFFault_FaultM
essage" />
    </wsdl:operation>
```

```
    </wsdl:portType>
    <wsdl:binding name="BasicHttpBinding_CompiledDictionaryService" type="tns:
CompiledDictionaryService">
<wsp:PolicyReference URI="#BasicHttpBinding_CompiledDictionaryService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>    <wsdl:operation
name="CreateCompiledDictionary">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/CompiledDictionaryServ
ice/CreateCompiledDictionary"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>
<!----------SECURE BINDINGS HERE ------------------>

</wsdl:definitions>
```

6.6 LinguisticManagerService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="LinguisticManagerServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_LinguisticManagerService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

  <wsp:Policy wsu:Id="BasicHttpBinding_LinguisticManagerServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
        <sp:TransportBinding>
          <wsp:Policy>
            <sp:TransportToken>
             <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false"/>
```

```
                </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
                <wsp:Policy>
                    <sp:Basic256/>
                </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
                <wsp:Policy>
                    <sp:Strict/>
                </wsp:Policy>
            </sp:Layout>
        </wsp:Policy>
      </sp:TransportBinding>
    </wsp:All>
  </wsp:ExactlyOne>
</wsp:Policy>

  <wsdl:types>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
      <xsd:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

      <xsd:simpleType name="LinguisticType">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="SPELLCHECKING" />
          <xsd:enumeration value="ENTITYEXTRACTION" />
          <xsd:enumeration value="UNKNOWN" />
        </xsd:restriction>
      </xsd:simpleType>

      <xsd:element name="GetType">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="fullName" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetTypeResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetTypeResult" type="tns:LinguisticType" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="AdminExceptionWCF">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="Values" nillable="true"
            type="msa:ArrayOfstring" />
        </xsd:sequence>
      </xsd:complexType>
      <xsd:element name="AdminExceptionWCF" nillable="true" type="tns:AdminExceptionWCF" />
```

```
      </xsd:schema>

   <xsd:schema elementFormDefault="qualified"
     targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
     <xsd:complexType name="ArrayOfstring">
       <xsd:sequence>
         <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
           nillable="true" type="xsd:string" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:schema>

  </wsdl:types>

  <wsdl:message name="LinguisticManagerService_GetType_InputMessage">
    <wsdl:part name="parameters" element="tns:GetType" />
  </wsdl:message>
  <wsdl:message name="LinguisticManagerService_GetType_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetTypeResponse" />
  </wsdl:message>
  <wsdl:message
    name="LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:portType name="LinguisticManagerService">
    <wsdl:operation name="GetType">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetType"
        message="tns:LinguisticManagerService_GetType_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetTypeResponse"
        message="tns:LinguisticManagerService_GetType_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServ
ice/GetTypeAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:LinguisticManagerService_GetType_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
<wsdl:binding name="BasicHttpBinding_LinguisticManagerService" type="tns:
LinguisticManagerService">
<wsp:PolicyReference URI="#BasicHttpBinding_LinguisticManagerService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>      <wsdl:operation
name="GetType">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/LinguisticManagerServi
ce/GetType"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
```

```
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
      </wsdl:binding>
    <!----------SECURE BINDINGS HERE ------------------>

    </wsdl:definitions>
```

6.7 DeploymentService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="DeploymentServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_DeploymentService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>

<wsp:Policy wsu:Id="BasicHttpBinding_DeploymentServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
        <sp:TransportBinding>
          <wsp:Policy>
            <sp:TransportToken>
             <wsp:Policy>
                <sp:HttpsToken RequireClientCertificate="false"/>
            </wsp:Policy>
            </sp:TransportToken>
            <sp:AlgorithmSuite>
                <wsp:Policy>
                    <sp:Basic256/>
                </wsp:Policy>
            </sp:AlgorithmSuite>
            <sp:Layout>
                <wsp:Policy>
                    <sp:Strict/>
                </wsp:Policy>
            </sp:Layout>
          </wsp:Policy>
        </sp:TransportBinding>
      </wsp:All>
    </wsp:ExactlyOne>
```

```
  </wsp:Policy>

  <wsdl:types>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">
      <xsd:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
      <xsd:element name="Deploy">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="type" type="tns:LinguisticType" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:simpleType name="LinguisticType">
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="SPELLCHECKING" />
          <xsd:enumeration value="ENTITYEXTRACTION" />
          <xsd:enumeration value="UNKNOWN" />
        </xsd:restriction>
      </xsd:simpleType>
      <xsd:element name="DeployResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>
      <xsd:complexType name="AdminExceptionWCF">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="Values" nillable="true"
            type="msa:ArrayOfstring" />
        </xsd:sequence>
      </xsd:complexType>
      <xsd:element name="AdminExceptionWCF" nillable="true"
        type="tns:AdminExceptionWCF" />
    </xsd:schema>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">

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

  </wsdl:types>

  <wsdl:message name="DeploymentService_Deploy_InputMessage">
    <wsdl:part name="parameters" element="tns:Deploy" />
  </wsdl:message>
  <wsdl:message name="DeploymentService_Deploy_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeployResponse" />
  </wsdl:message>
  <wsdl:message
```

```
      name="DeploymentService_Deploy_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:portType name="DeploymentService">
    <wsdl:operation name="Deploy">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loy"
        message="tns:DeploymentService_Deploy_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loyResponse"
        message="tns:DeploymentService_Deploy_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Dep
loyAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:DeploymentService_Deploy_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_DeploymentService" type="tns: DeploymentService">
<wsp:PolicyReference URI="#BasicHttpBinding_DeploymentService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>          <wsdl:operation
name="Deploy">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/DeploymentService/Depl
oy"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>
<!----------SECURE BINDINGS HERE ------------------>

</wsdl:definitions>
```

6.8 ContentCollectionService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="ContentCollectionServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
```

```
   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
   xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
   xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
   <wsp:Policy wsu:Id="BasicHttpBinding_ContentCollectionService_policy">
     <wsp:ExactlyOne>
       <wsp:All>
         <http:NtlmAuthentication/>
       </wsp:All>
    </wsp:ExactlyOne>
   </wsp:Policy>
   <wsp:Policy wsu:Id="BasicHttpBinding_ContentCollectionServiceSecure_policy">
     <wsp:ExactlyOne>
       <wsp:All>
         <http:NtlmAuthentication/>
         <sp:TransportBinding>
           <wsp:Policy>
             <sp:TransportToken>
              <wsp:Policy>
                 <sp:HttpsToken RequireClientCertificate="false"/>
             </wsp:Policy>
             </sp:TransportToken>
             <sp:AlgorithmSuite>
               <wsp:Policy>
                  <sp:Basic256/>
               </wsp:Policy>
             </sp:AlgorithmSuite>
             <sp:Layout>
               <wsp:Policy>
                  <sp:Strict/>
               </wsp:Policy>
             </sp:Layout>
           </wsp:Policy>
         </sp:TransportBinding>
       </wsp:All>
     </wsp:ExactlyOne>
   </wsp:Policy>

   <wsdl:types>

     <xsd:schema elementFormDefault="qualified"
       targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">

       <xsd:import
         namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

       <xsd:element name="AddCollection">
         <xsd:complexType>
           <xsd:sequence>
             <xsd:element minOccurs="0" name="collection" nillable="true"
               type="tns:ContentCollectionDTO" />
           </xsd:sequence>
         </xsd:complexType>
       </xsd:element>
       <xsd:complexType name="ContentCollectionDTO">
         <xsd:sequence>
           <xsd:element minOccurs="0" name="Cleared" nillable="true"
             type="xsd:string" />
           <xsd:element minOccurs="0" name="Created" nillable="true"
```

```
        type="xsd:string" />
      <xsd:element minOccurs="0" name="Description" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="LastInput" nillable="true"
        type="xsd:dateTime" />
      <xsd:element minOccurs="0" name="Name" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="NumDocs" type="xsd:int" />
      <xsd:element minOccurs="0" name="Pipeline" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="AddCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="AddCollectionResult"
          nillable="true" type="tns:ContentCollectionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:complexType name="AdminExceptionWCF">
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ErrorCode" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="Values" nillable="true"
        type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="AdminExceptionWCF" nillable="true"
    type="tns:AdminExceptionWCF" />
  <xsd:element name="GetCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="name" nillable="true"
          type="xsd:string" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="GetCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetCollectionResult"
          nillable="true" type="tns:ContentCollectionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="GetAllCollections">
    <xsd:complexType>
      <xsd:sequence />
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="GetAllCollectionsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetAllCollectionsResult"
          nillable="true" type="tns:ArrayOfContentCollectionDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```xml
<xsd:complexType name="ArrayOfContentCollectionDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="ContentCollectionDTO" nillable="true" type="tns:ContentCollectionDTO" />
  </xsd:sequence>
</xsd:complexType>
<xsd:element name="ModifyCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="collection" nillable="true"
        type="tns:ContentCollectionDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ModifyCollectionResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
<xsd:element name="GetAllPipelines">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>
<xsd:element name="GetAllPipelinesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllPipelinesResult"
        nillable="true" type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="DeleteCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="name" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="DeleteCollectionResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="DeleteCollectionResult"
        type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ClearCollection">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="collectionName"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="resumeFeeding" type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ClearCollectionResponse">
  <xsd:complexType>
```

```
              <xsd:sequence />
          </xsd:complexType>
        </xsd:element>
      </xsd:schema>

      <xsd:schema elementFormDefault="qualified"
        targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
        <xsd:complexType name="ArrayOfstring">
          <xsd:sequence>
            <xsd:element minOccurs="0" maxOccurs="unbounded" name="string"
              nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:schema>

  </wsdl:types>
  <wsdl:message name="ContentCollectionService_AddCollection_InputMessage">
    <wsdl:part name="parameters" element="tns:AddCollection" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_AddCollection_OutputMessage">
    <wsdl:part name="parameters" element="tns:AddCollectionResponse" />
  </wsdl:message>
  <wsdl:message
    name="ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_GetCollection_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCollection" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_GetCollection_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCollectionResponse" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_GetAllCollections_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCollections" />
  </wsdl:message>
  <wsdl:message
    name="ContentCollectionService_GetAllCollections_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCollectionsResponse" />
  </wsdl:message>
  <wsdl:message
    name="ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_ModifyCollection_InputMessage">
    <wsdl:part name="parameters" element="tns:ModifyCollection" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_ModifyCollection_OutputMessage">
    <wsdl:part name="parameters" element="tns:ModifyCollectionResponse" />
  </wsdl:message>
  <wsdl:message
    name="ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_GetAllPipelines_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPipelines" />
  </wsdl:message>
  <wsdl:message name="ContentCollectionService_GetAllPipelines_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllPipelinesResponse" />
  </wsdl:message>
```

```
<wsdl:message
  name="ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="ContentCollectionService_DeleteCollection_InputMessage">
  <wsdl:part name="parameters" element="tns:DeleteCollection" />
</wsdl:message>
<wsdl:message name="ContentCollectionService_DeleteCollection_OutputMessage">
  <wsdl:part name="parameters" element="tns:DeleteCollectionResponse" />
</wsdl:message>
<wsdl:message
  name="ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="ContentCollectionService_ClearCollection_InputMessage">
  <wsdl:part name="parameters" element="tns:ClearCollection" />
</wsdl:message>
<wsdl:message name="ContentCollectionService_ClearCollection_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearCollectionResponse" />
</wsdl:message>
<wsdl:message
  name="ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:portType name="ContentCollectionService">
  <wsdl:operation name="AddCollection">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollection"
      message="tns:ContentCollectionService_AddCollection_InputMessage" />
    <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollectionResponse"
      message="tns:ContentCollectionService_AddCollection_OutputMessage" />
    <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/AddCollectionAdminExceptionWCFFault"
      name="AdminExceptionWCFFault"

message="tns:ContentCollectionService_AddCollection_AdminExceptionWCFFault_FaultMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetCollection">
    <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetCollection"
      message="tns:ContentCollectionService_GetCollection_InputMessage" />
    <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/GetCollectionResponse"
      message="tns:ContentCollectionService_GetCollection_OutputMessage" />
  </wsdl:operation>
  <wsdl:operation name="GetAllCollections">
    <wsdl:input
```

```
       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllCollections"
             message="tns:ContentCollectionService_GetAllCollections_InputMessage" />
         <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllCollectionsResponse"
             message="tns:ContentCollectionService_GetAllCollections_OutputMessage" />
         <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllCollectionsAdminExceptionWCFFault"
             name="AdminExceptionWCFFault"

       message="tns:ContentCollectionService_GetAllCollections_AdminExceptionWCFFault_FaultMessage"
       />
       </wsdl:operation>
       <wsdl:operation name="ModifyCollection">
         <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/ModifyCollection"
             message="tns:ContentCollectionService_ModifyCollection_InputMessage" />
         <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/ModifyCollectionResponse"
             message="tns:ContentCollectionService_ModifyCollection_OutputMessage" />
         <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/ModifyCollectionAdminExceptionWCFFault"
             name="AdminExceptionWCFFault"

       message="tns:ContentCollectionService_ModifyCollection_AdminExceptionWCFFault_FaultMessage"
       />
       </wsdl:operation>
       <wsdl:operation name="GetAllPipelines">
         <wsdl:input

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllPipelines"
             message="tns:ContentCollectionService_GetAllPipelines_InputMessage" />
         <wsdl:output

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllPipelinesResponse"
             message="tns:ContentCollectionService_GetAllPipelines_OutputMessage" />
         <wsdl:fault

       wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
       ice/GetAllPipelinesAdminExceptionWCFFault"
             name="AdminExceptionWCFFault"

       message="tns:ContentCollectionService_GetAllPipelines_AdminExceptionWCFFault_FaultMessage" />
       </wsdl:operation>
       <wsdl:operation name="DeleteCollection">
         <wsdl:input
```

```
            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollection"
                message="tns:ContentCollectionService_DeleteCollection_InputMessage" />
          <wsdl:output

            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollectionResponse"
                message="tns:ContentCollectionService_DeleteCollection_OutputMessage" />
          <wsdl:fault

            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/DeleteCollectionAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"

            message="tns:ContentCollectionService_DeleteCollection_AdminExceptionWCFFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="ClearCollection">
          <wsdl:input

            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollection"
                message="tns:ContentCollectionService_ClearCollection_InputMessage" />
          <wsdl:output

            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollectionResponse"
                message="tns:ContentCollectionService_ClearCollection_OutputMessage" />
          <wsdl:fault

            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServ
ice/ClearCollectionAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"

            message="tns:ContentCollectionService_ClearCollection_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
      </wsdl:portType>
      <wsdl:binding name="BasicHttpBinding_ContentCollectionService" type="tns:
ContentCollectionService">
<wsp:PolicyReference URI="#BasicHttpBinding_ContentCollectionService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>              <wsdl:operation
name="AddCollection">
          <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/AddCollection"
                style="document" />
          <wsdl:input>
            <soap12:body use="literal" />
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal" />
          </wsdl:output>
          <wsdl:fault name="AdminExceptionWCFFault">
            <soap12:fault name="AdminExceptionWCFFault" use="literal" />
          </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetCollection">
          <soap12:operation
```

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```
        soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/GetCollection"
          style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetAllCollections">
      <soap12:operation

        soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/GetAllCollections"
          style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ModifyCollection">
      <soap12:operation

        soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/ModifyCollection"
          style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetAllPipelines">
      <soap12:operation

        soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/GetAllPipelines"
          style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="DeleteCollection">
```

```
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/DeleteCollection"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ClearCollection">
      <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/ContentCollectionServi
ce/ClearCollection"
        style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
  </wsdl:binding>
<!---------SECURE BINDINGS HERE ------------------>

</wsdl:definitions>
```

6.9 SchemaService Web Service WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions name="SchemaServiceImpl"
  targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
  xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd"
  xmlns:msa="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://Microsoft.SharePoint.Search.Extended.Administration"
  xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy"
  xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/">
  <wsp:Policy wsu:Id="BasicHttpBinding_SchemaService_policy">
    <wsp:ExactlyOne>
      <wsp:All>
        <http:NtlmAuthentication/>
      </wsp:All>
    </wsp:ExactlyOne>
  </wsp:Policy>
```

```xml
<wsp:Policy wsu:Id="BasicHttpBinding_SchemaServiceSecure_policy">
    <wsp:ExactlyOne>
      <wsp:All>
          <http:NtlmAuthentication/>
          <sp:TransportBinding>
            <wsp:Policy>
                <sp:TransportToken>
                 <wsp:Policy>
                    <sp:HttpsToken RequireClientCertificate="false"/>
                 </wsp:Policy>
                </sp:TransportToken>
                <sp:AlgorithmSuite>
                    <wsp:Policy>
                       <sp:Basic256/>
                    </wsp:Policy>
                </sp:AlgorithmSuite>
                <sp:Layout>
                   <wsp:Policy>
                      <sp:Strict/>
                   </wsp:Policy>
                </sp:Layout>
            </wsp:Policy>
          </sp:TransportBinding>
      </wsp:All>
    </wsp:ExactlyOne>
</wsp:Policy>

  <wsdl:types>

    <xsd:schema elementFormDefault="qualified"
      targetNamespace="http://Microsoft.SharePoint.Search.Extended.Administration">

      <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />

      <xsd:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />

      <xsd:complexType name="ManagedPropertyDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="DecimalPlaces" type="xsd:int" />
          <xsd:element minOccurs="0" name="DeleteDisallowed" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="Id" type="xsd:long" />
          <xsd:element minOccurs="0" name="IsMapped" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="MappingDisallowed" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="MaxIndexSize" type="xsd:int" />
          <xsd:element minOccurs="0" name="MaxResultSize" type="xsd:int" />
          <xsd:element minOccurs="0" name="MergeCrawledProperties" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="Queryable" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="RefinementEnabled" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="ResultFallBackRef" type="xsd:long" />
          <xsd:element minOccurs="0" name="SortableType" type="xsd:int" />
          <xsd:element minOccurs="0" name="StemmingEnabled" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="SubstringEnabled" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="SummaryTypeValue" type="xsd:int" />
          <xsd:element minOccurs="0" name="Type" type="xsd:int" />
        </xsd:sequence>
```

```
        </xsd:complexType>

        <xsd:complexType name="RefinerConfigurationDTO">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="Algorithm" nillable="true" type="xsd:int" />
            <xsd:element minOccurs="0" name="Anchoring" nillable="true" type="xsd:int" />
            <xsd:element minOccurs="0" name="CutoffMaxBucket" nillable="true" type="xsd:int" />
            <xsd:element minOccurs="0" name="DefaultValue" nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="Divisor" nillable="true" type="xsd:float" />
            <xsd:element minOccurs="0" name="ID" nillable="true" type="xsd:long" />
            <xsd:element minOccurs="0" name="Intervals" nillable="true" type="xsd:int" />
            <xsd:element minOccurs="0" name="RefinementType" type="xsd:int" />
            <xsd:element minOccurs="0" name="Resolution" nillable="true" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="CategoryDTO">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CrawledPropertyCount" type="xsd:int" />
            <xsd:element minOccurs="0" name="DiscoverNewProperties" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="ID" type="xsd:long" />
            <xsd:element minOccurs="0" name="MapToContents" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="FullTextIndexDTO">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="DeleteDisallowed" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="Description" nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="Id" type="xsd:long" />

            <xsd:element minOccurs="0" name="Name" nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="StemmingEnabled" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="isDefault" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>

        <xsd:complexType name="CrawledPropertyDTO">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CategoryName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="Id" type="xsd:long" />
            <xsd:element minOccurs="0" name="IsMappedToContents"
              type="xsd:boolean" />
            <xsd:element minOccurs="0" name="IsMultiValued" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="IsNameEnum" type="xsd:boolean" />
            <xsd:element minOccurs="0" name="Name" nillable="true"
              type="xsd:string" />
            <xsd:element minOccurs="0" name="Propset" type="ser:guid" />
            <xsd:element minOccurs="0" name="VariantType" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>

        <xsd:element name="ContainsCategoryByName">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="name" nillable="true" type="xsd:string" />
            </xsd:sequence>
```

```xsd
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="ContainsCategoryByNameResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="ContainsCategoryByNameResult" type="xsd:boolean"
 />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:complexType name="AdminExceptionWCF">
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ErrorCode" nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="Values" nillable="true" type="msa:ArrayOfstring"
 />
          </xsd:sequence>
        </xsd:complexType>

        <xsd:element name="AdminExceptionWCF" nillable="true" type="tns:AdminExceptionWCF" />

        <xsd:element name="DeleteCategory">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="DeleteCategoryResponse">
          <xsd:complexType>
            <xsd:sequence />
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="DeleteUnmappedProperties">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="DeleteUnmappedPropertiesResponse">
          <xsd:complexType>
            <xsd:sequence />
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetUnmappedCrawledProperties">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetUnmappedCrawledPropertiesResponse">
```

```
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetUnmappedCrawledPropertiesResult" nillable="true"
              type="tns:ArrayOfCrawledPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfCrawledPropertyDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded"
            name="CrawledPropertyDTO" nillable="true" type="tns:CrawledPropertyDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="GetAllCrawledProperties">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetAllCrawledPropertiesResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetAllCrawledPropertiesResult"
              nillable="true" type="tns:ArrayOfCrawledPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetAllCrawledPropertiesCount">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetAllCrawledPropertiesCountResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetAllCrawledPropertiesCountResult" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetCrawledProperty">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="propset" type="ser:guid" />
            <xsd:element minOccurs="0" name="CrawledPropertyName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="variantType" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
```

```
        </xsd:element>

        <xsd:element name="GetCrawledPropertyResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="GetCrawledPropertyResult"
                nillable="true" type="tns:CrawledPropertyDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="QueryCrawledProperties">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="CategoryName"
                nillable="true" type="xsd:string" />
              <xsd:element minOccurs="0" name="filter" nillable="true"
                type="xsd:string" />
              <xsd:element minOccurs="0" name="offset" type="xsd:int" />
              <xsd:element minOccurs="0" name="count" type="xsd:int" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="QueryCrawledPropertiesResponse">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="QueryCrawledPropertiesResult"
                nillable="true" type="tns:ArrayOfCrawledPropertyDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="UpdateCategory">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="category" nillable="true"
                type="tns:CategoryDTO" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="UpdateCategoryResponse">
          <xsd:complexType>
            <xsd:sequence />
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetPropsetCategoryMappings">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>

        <xsd:element name="GetPropsetCategoryMappingsResponse">
          <xsd:complexType>
            <xsd:sequence>
```

```xml
          <xsd:element minOccurs="0" name="GetPropsetCategoryMappingsResult"
            nillable="true" type="msa:ArrayOfguid" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="SetPropsetCategoryMappings">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="CategoryId" type="xsd:long" />
          <xsd:element minOccurs="0" name="propsets" nillable="true"
            type="msa:ArrayOfguid" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="SetPropsetCategoryMappingsResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CreateRankProfileWithDefaults">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="Name" nillable="true"
            type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CreateRankProfileWithDefaultsResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="CreateRankProfileWithDefaultsResult" nillable="true"
            type="tns:RankProfileDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="RankProfileDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="AuthorityWeight" type="xsd:int" />
        <xsd:element minOccurs="0" name="FreshnessManagedPropertyName"
          nillable="true" type="xsd:string" />
        <xsd:element minOccurs="0" name="FreshnessResolution"
          type="xsd:int" />
        <xsd:element minOccurs="0" name="FreshnessWeight" type="xsd:int" />
        <xsd:element minOccurs="0" name="ID" type="xsd:long" />
        <xsd:element minOccurs="0" name="Name" nillable="true"
          type="xsd:string" />
        <xsd:element minOccurs="0" name="PositionStopWordThreshold"
          type="xsd:long" />
        <xsd:element minOccurs="0" name="QualityWeight" type="xsd:int" />
        <xsd:element minOccurs="0" name="QueryAuthorityWeight"
          type="xsd:int" />
        <xsd:element minOccurs="0" name="RankModelName"
          nillable="true" type="xsd:string" />
```

```
                <xsd:element minOccurs="0" name="StopWordThreshold"
                  type="xsd:long" />
                <xsd:element minOccurs="0" name="isDefault" type="xsd:boolean" />
              </xsd:sequence>
            </xsd:complexType>

            <xsd:element name="CreateRankProfile">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="Name" nillable="true"
                    type="xsd:string" />
                  <xsd:element minOccurs="0" name="dto" nillable="true"
                    type="tns:RankProfileDTO" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

            <xsd:element name="CreateRankProfileResponse">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="CreateRankProfileResult"
                    nillable="true" type="tns:RankProfileDTO" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

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

            <xsd:element name="ContainsRankProfileResponse">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="ContainsRankProfileResult"
                    type="xsd:boolean" />
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>

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

            <xsd:element name="GetRankProfileResponse">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element minOccurs="0" name="GetRankProfileResult"
                    nillable="true" type="tns:RankProfileDTO" />
                </xsd:sequence>
```

```
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="MakeDefaultRankProfile">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="MakeDefaultRankProfileResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetQualityComponentCollection">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetQualityComponentCollectionResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0"
            name="GetQualityComponentCollectionResult" nillable="true"
            type="tns:ArrayOfQualityComponentDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfQualityComponentDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded"
          name="QualityComponentDTO" nillable="true" type="tns:QualityComponentDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:complexType name="QualityComponentDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ManagedPropertyName"
          nillable="true" type="xsd:string" />
        <xsd:element minOccurs="0" name="Weight" type="xsd:int" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="CreateQualityComponent">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
          <xsd:element minOccurs="0" name="ManagedPropertyName"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="Weight" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
```

```xml
      </xsd:element>

      <xsd:element name="CreateQualityComponentResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="CreateQualityComponentResult"
              nillable="true" type="tns:QualityComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetFullTextIndexRankCollection">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetFullTextIndexRankCollectionResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetFullTextIndexRankCollectionResult"
              nillable="true" type="tns:ArrayOfFullTextIndexRankComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:complexType name="ArrayOfFullTextIndexRankComponentDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" maxOccurs="unbounded"
            name="FullTextIndexRankComponentDTO" nillable="true"
 type="tns:FullTextIndexRankComponentDTO" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:complexType name="FullTextIndexRankComponentDTO">
        <xsd:sequence>
          <xsd:element minOccurs="0" name="ContextWeight" type="xsd:int" />
          <xsd:element minOccurs="0" name="FullTextIndexReference"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="ProximityWeight" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>

      <xsd:element name="CreateFullTextIndexRankComponent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="FullTextIndexReference"
              nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateFullTextIndexRankComponentResponse">
        <xsd:complexType>
          <xsd:sequence>
```

```xml
            <xsd:element minOccurs="0"
              name="CreateFullTextIndexRankComponentResult" nillable="true"
  type="tns:FullTextIndexRankComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetFreshnessManagedPropertyReference">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetFreshnessManagedPropertyReferenceResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetFreshnessManagedPropertyReferenceResult" nillable="true"
  type="tns:ManagedPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetFreshnessManagedPropertyReference">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="ManagedPropertyName"
              nillable="true" type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetFreshnessManagedPropertyReferenceResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetManagedPropertyBoostCollection">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetManagedPropertyBoostCollectionResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetManagedPropertyBoostCollectionResult" nillable="true"
              type="tns:ArrayOfManagedPropertyBoostComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
```

```xsd
<xsd:complexType name="ArrayOfManagedPropertyBoostComponentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="ManagedPropertyBoostComponentDTO" nillable="true"
      type="tns:ManagedPropertyBoostComponentDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ManagedPropertyBoostComponentDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="BoostValue" nillable="true"
      type="xsd:string" />
    <xsd:element minOccurs="0" name="Id" type="xsd:long" />
    <xsd:element minOccurs="0" name="ManagedPropertyName"
      nillable="true" type="xsd:string" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="CreateManagedPropertyBoostComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
      <xsd:element minOccurs="0" name="ManagedPropertyName" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="BoostValue" nillable="true"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateManagedPropertyBoostComponentResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CreateManagedPropertyBoostComponentResult" nillable="true"
 type="tns:ManagedPropertyBoostComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="dto" nillable="true"
        type="tns:RankProfileDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateRankProfileResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="DeleteRankProfile">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="dto" nillable="true"
```

```
                type="tns:RankProfileDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DeleteRankProfileResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateManagedPropertyBoostComponent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="dto" nillable="true"
              type="tns:ManagedPropertyBoostComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateManagedPropertyBoostComponentResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DeleteManagedPropertyBoostComponent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="dto" nillable="true"
              type="tns:ManagedPropertyBoostComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DeleteManagedPropertyBoostComponentResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetImportanceLevelWeight">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="FullTextIndexId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="ImportanceLevel"
              type="xsd:int" />
            <xsd:element minOccurs="0" name="Weight" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetImportanceLevelWeightResponse">
        <xsd:complexType>
          <xsd:sequence />
```

```
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetImportanceLevelWeight">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="FullTextIndexId"
              type="xsd:long" />
            <xsd:element minOccurs="0" name="ImportanceLevel"
              type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetImportanceLevelWeightResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetImportanceLevelWeightResult"
              type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateFullTextIndexRankComponent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="dto" nillable="true"
              type="tns:FullTextIndexRankComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateFullTextIndexRankComponentResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DeleteFullTextIndexRankComponent">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
            <xsd:element minOccurs="0" name="dto" nillable="true"
              type="tns:FullTextIndexRankComponentDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="DeleteFullTextIndexRankComponentResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateQualityComponent">
        <xsd:complexType>
          <xsd:sequence>
```

```xsd
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
      <xsd:element minOccurs="0" name="dto" nillable="true"
        type="tns:QualityComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="UpdateQualityComponentResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="DeleteQualityComponent">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="RankProfileId" type="xsd:long" />
      <xsd:element minOccurs="0" name="dto" nillable="true"
        type="tns:QualityComponentDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="DeleteQualityComponentResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetAllManagedProperties">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetAllManagedPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetAllManagedPropertiesResult"
        nillable="true" type="tns:ArrayOfManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfManagedPropertyDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="ManagedPropertyDTO" nillable="true" type="tns:ManagedPropertyDTO" />
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="GetAllCategories">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetAllCategoriesResponse">
  <xsd:complexType>
```

```xml
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetAllCategoriesResult"
            nillable="true" type="tns:ArrayOfCategoryDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfCategoryDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" name="CategoryDTO"
          nillable="true" type="tns:CategoryDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="GetAllFullTextIndecies">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetAllFullTextIndeciesResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetAllFullTextIndeciesResult"
            nillable="true" type="tns:ArrayOfFullTextIndexDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfFullTextIndexDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" name="FullTextIndexDTO"
          nillable="true" type="tns:FullTextIndexDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="GetAllRankProfiles">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetAllRankProfilesResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetAllRankProfilesResult"
            nillable="true" type="tns:ArrayOfRankProfileDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:complexType name="ArrayOfRankProfileDTO">
      <xsd:sequence>
        <xsd:element minOccurs="0" maxOccurs="unbounded" name="RankProfileDTO"
 nillable="true" type="tns:RankProfileDTO" />
      </xsd:sequence>
    </xsd:complexType>

    <xsd:element name="GetQueryCrawledProperties">
```

```xsd
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="filter" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetQueryCrawledPropertiesResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetQueryCrawledPropertiesResult"
            nillable="true" type="tns:ArrayOfCrawledPropertyDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetQueryCrawledPropertiesByWildcard">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="name" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="offset" type="xsd:int" />
          <xsd:element minOccurs="0" name="count" type="xsd:int" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetQueryCrawledPropertiesByWildcardResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="GetQueryCrawledPropertiesByWildcardResult"
            nillable="true" type="tns:ArrayOfCrawledPropertyDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CreateManagedProperty">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="Name" nillable="true"
            type="xsd:string" />
          <xsd:element minOccurs="0" name="Description"
            nillable="true" type="xsd:string" />
          <xsd:element minOccurs="0" name="type" type="xsd:int" />
          <xsd:element minOccurs="0" name="queryable" type="xsd:boolean" />
          <xsd:element minOccurs="0" name="sortableType" type="xsd:int" />
          <xsd:element minOccurs="0" name="enableLemmatization"
            type="xsd:boolean" />
          <xsd:element minOccurs="0" name="SummaryType" type="xsd:int" />
          <xsd:element minOccurs="0" name="mappingDisallowed"
            type="xsd:boolean" />
          <xsd:element minOccurs="0" name="deleteDisallowed"
            type="xsd:boolean" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

```xsd
<xsd:element name="CreateManagedPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateManagedPropertyResult"
        nillable="true" type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="SetResultFallback">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId"
        type="xsd:long" />
      <xsd:element minOccurs="0" name="ResultFallBackName"
        nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="SetResultFallbackResponse">
  <xsd:complexType>
    <xsd:sequence />
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateManagedPropertyMinimal">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="Name" nillable="true"
        type="xsd:string" />
      <xsd:element minOccurs="0" name="Description"
        nillable="true" type="xsd:string" />
      <xsd:element minOccurs="0" name="type" type="xsd:int" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateManagedPropertyMinimalResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CreateManagedPropertyMinimalResult"
        nillable="true" type="tns:ManagedPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

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

<xsd:element name="DeleteManagedPropertyResponse">
```

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

      <xsd:element name="UpdateManagedProperty">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="managedProperty"
              nillable="true" type="tns:ManagedPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="UpdateManagedPropertyResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetCrawledPropertyMappings">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="id" type="xsd:long" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetCrawledPropertyMappingsResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0"
              name="GetCrawledPropertyMappingsResult" nillable="true"
              type="tns:ArrayOfCrawledPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetCrawledPropertyMappings">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="id" type="xsd:long" />
            <xsd:element minOccurs="0" name="cpm" nillable="true"
              type="tns:ArrayOfCrawledPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="SetCrawledPropertyMappingsResponse">
        <xsd:complexType>
          <xsd:sequence />
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ContainsManagedProperty">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
```

```xml
        </xsd:sequence>
      </xsd:complexType>
  </xsd:element>

  <xsd:element name="ContainsManagedPropertyResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ContainsManagedPropertyResult"
          type="xsd:boolean" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

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

  <xsd:element name="GetManagedPropertyResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetManagedPropertyResult"
          nillable="true" type="tns:ManagedPropertyDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetManagedPropertyById">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="id" type="xsd:long" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetManagedPropertyByIdResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="GetManagedPropertyByIdResult"
          nillable="true" type="tns:ManagedPropertyDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetRefinerConfiguration">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element minOccurs="0" name="ManagedPropertyId"
          type="xsd:long" />
        <xsd:element minOccurs="0" name="Refiner" nillable="true"
          type="tns:RefinerConfigurationDTO" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```

```xml
<xsd:element name="SetRefinerConfigurationResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="SetRefinerConfigurationResult"
        nillable="true" type="tns:RefinerConfigurationDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetRefinerConfiguration">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetRefinerConfigurationResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetRefinerConfigurationResult"
        nillable="true" type="tns:RefinerConfigurationDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetFullTextIndexMappings">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="ManagedPropertyId"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetFullTextIndexMappingsResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="GetFullTextIndexMappingsResult"
        nillable="true" type="tns:ArrayOfFullTextIndexMappingDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="ArrayOfFullTextIndexMappingDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" maxOccurs="unbounded"
      name="FullTextIndexMappingDTO" nillable="true" type="tns:FullTextIndexMappingDTO"
 />
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="FullTextIndexMappingDTO">
  <xsd:sequence>
    <xsd:element minOccurs="0" name="FullTextIndexName"
      nillable="true" type="xsd:string" />
    <xsd:element minOccurs="0" name="ImportanceLevel" type="xsd:int" />
    <xsd:element minOccurs="0" name="ManagedPropertyName"
```

```xsd
            nillable="true" type="xsd:string" />
      </xsd:sequence>
   </xsd:complexType>

   <xsd:element name="DeleteFullTextIndexMapping">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="dto" nillable="true"
               type="tns:FullTextIndexMappingDTO" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="DeleteFullTextIndexMappingResponse">
      <xsd:complexType>
         <xsd:sequence />
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateFullTextIndexMapping">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="ManagedPropertyId"
               type="xsd:long" />
            <xsd:element minOccurs="0" name="FullTextIndexId"
               type="xsd:long" />
            <xsd:element minOccurs="0" name="ImportanceLevel"
               type="xsd:int" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateFullTextIndexMappingResponse">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0"
               name="CreateFullTextIndexMappingResult" nillable="true"
               type="tns:FullTextIndexMappingDTO" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateFullTextIndex">
      <xsd:complexType>
         <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
               type="xsd:string" />
            <xsd:element minOccurs="0" name="description"
               nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="lemmatizationEnabled"
               type="xsd:boolean" />
            <xsd:element minOccurs="0" name="deleteDisallowed"
               type="xsd:boolean" />
         </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateFullTextIndexResponse">
      <xsd:complexType>
```

```xml
        <xsd:sequence>
          <xsd:element minOccurs="0" name="CreateFullTextIndexResult"
            nillable="true" type="tns:FullTextIndexDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="MakeDefaultFullTextIndex">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="FullTextIndexName"
            nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="MakeDefaultFullTextIndexResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="DeleteFullTextIndex">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="FullTextIndexName"
            nillable="true" type="xsd:string" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="DeleteFullTextIndexResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="UpdateFullTextIndex">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="fullTextIndex"
            nillable="true" type="tns:FullTextIndexDTO" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="UpdateFullTextIndexResponse">
      <xsd:complexType>
        <xsd:sequence />
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="GetMappingsForLevel">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element minOccurs="0" name="fullTextIndexId"
            type="xsd:long" />
          <xsd:element minOccurs="0" name="importanceLevel"
            type="xsd:int" />
```

```xml
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetMappingsForLevelResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetMappingsForLevelResult"
              nillable="true" type="tns:ArrayOfManagedPropertyDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

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

      <xsd:element name="ContainsFullTextIndexResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsFullTextIndexResult"
              type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

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

      <xsd:element name="GetFullTextIndexResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetFullTextIndexResult"
              nillable="true" type="tns:FullTextIndexDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="CreateCrawledProperty">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="propertyName"
              nillable="true" type="xsd:string" />
            <xsd:element minOccurs="0" name="propset" type="ser:guid" />
            <xsd:element minOccurs="0" name="variantType" type="xsd:int" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
```

```xml
<xsd:element name="CreateCrawledPropertyResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCrawledPropertyResult"
        nillable="true" type="tns:CrawledPropertyDTO" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateCrawledPropertySimple">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="crawledProperty"
        nillable="true" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateCrawledPropertySimpleResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0"
        name="CreateCrawledPropertySimpleResult"
        type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateCrawledProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="crawledProperties"
        nillable="true" type="msa:ArrayOfstring" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="CreateCrawledPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CreateCrawledPropertiesResult"
        type="xsd:boolean" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetMappedManagedProperties">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element minOccurs="0" name="CrawledPropertyID"
        type="xsd:long" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="GetMappedManagedPropertiesResponse">
  <xsd:complexType>
    <xsd:sequence>
```

```xml
          <xsd:element minOccurs="0"
            name="GetMappedManagedPropertiesResult" nillable="true"
            type="tns:ArrayOfManagedPropertyDTO" />
        </xsd:sequence>
      </xsd:complexType>
   </xsd:element>

   <xsd:element name="UpdateCrawledProperty">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element minOccurs="0" name="crawledProperty"
           nillable="true" type="tns:CrawledPropertyDTO" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="UpdateCrawledPropertyResponse">
     <xsd:complexType>
       <xsd:sequence />
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateCategoryProperty">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element minOccurs="0" name="name" nillable="true"
           type="xsd:string" />
         <xsd:element minOccurs="0" name="Propset" type="ser:guid" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="CreateCategoryPropertyResponse">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element minOccurs="0" name="CreateCategoryPropertyResult"
           nillable="true" type="tns:CategoryDTO" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="GetCategory">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element minOccurs="0" name="propset" type="ser:guid" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="GetCategoryResponse">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element minOccurs="0" name="GetCategoryResult"
           nillable="true" type="tns:CategoryDTO" />
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>

   <xsd:element name="GetCategoryByName">
```

```xml
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="name" nillable="true"
              type="xsd:string" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="GetCategoryByNameResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="GetCategoryByNameResult"
              nillable="true" type="tns:CategoryDTO" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ContainsCategory">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="propset" type="ser:guid" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>

      <xsd:element name="ContainsCategoryResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element minOccurs="0" name="ContainsCategoryResult" type="xsd:boolean" />
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:schema>

    <xsd:schema attributeFormDefault="qualified"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/">

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

    </xsd:schema>

    <xsd:schema elementFormDefault="qualified"
 targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays">

      <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />

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

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

    </xsd:schema>

  </wsdl:types>

  <wsdl:message name="SchemaService_ContainsCategoryByName_InputMessage">
    <wsdl:part name="parameters" element="tns:ContainsCategoryByName" />
  </wsdl:message>
  <wsdl:message name="SchemaService_ContainsCategoryByName_OutputMessage">
    <wsdl:part name="parameters" element="tns:ContainsCategoryByNameResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_ContainsCategoryByName_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_DeleteCategory_InputMessage">
    <wsdl:part name="parameters" element="tns:DeleteCategory" />
  </wsdl:message>
  <wsdl:message name="SchemaService_DeleteCategory_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteCategoryResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_DeleteCategory_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_DeleteUnmappedProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:DeleteUnmappedProperties" />
  </wsdl:message>
  <wsdl:message name="SchemaService_DeleteUnmappedProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:DeleteUnmappedPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_DeleteUnmappedProperties_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetUnmappedCrawledProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:GetUnmappedCrawledProperties" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetUnmappedCrawledProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetUnmappedCrawledPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetUnmappedCrawledProperties_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetAllCrawledProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCrawledProperties" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetAllCrawledProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCrawledPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetAllCrawledProperties_AdminExceptionWCFFault_FaultMessage">
```

```
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetAllCrawledPropertiesCount_InputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCrawledPropertiesCount" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetAllCrawledPropertiesCount_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetAllCrawledPropertiesCountResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetAllCrawledPropertiesCount_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetCrawledProperty_InputMessage">
    <wsdl:part name="parameters" element="tns:GetCrawledProperty" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetCrawledProperty_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetCrawledPropertyResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetCrawledProperty_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_QueryCrawledProperties_InputMessage">
    <wsdl:part name="parameters" element="tns:QueryCrawledProperties" />
  </wsdl:message>
  <wsdl:message name="SchemaService_QueryCrawledProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns:QueryCrawledPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_QueryCrawledProperties_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_UpdateCategory_InputMessage">
    <wsdl:part name="parameters" element="tns:UpdateCategory" />
  </wsdl:message>
  <wsdl:message name="SchemaService_UpdateCategory_OutputMessage">
    <wsdl:part name="parameters" element="tns:UpdateCategoryResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_UpdateCategory_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetPropsetCategoryMappings_InputMessage">
    <wsdl:part name="parameters" element="tns:GetPropsetCategoryMappings" />
  </wsdl:message>
  <wsdl:message name="SchemaService_GetPropsetCategoryMappings_OutputMessage">
    <wsdl:part name="parameters" element="tns:GetPropsetCategoryMappingsResponse" />
  </wsdl:message>
  <wsdl:message
    name="SchemaService_GetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage">
    <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
  </wsdl:message>
  <wsdl:message name="SchemaService_SetPropsetCategoryMappings_InputMessage">
    <wsdl:part name="parameters" element="tns:SetPropsetCategoryMappings" />
  </wsdl:message>
  <wsdl:message name="SchemaService_SetPropsetCategoryMappings_OutputMessage">
    <wsdl:part name="parameters" element="tns:SetPropsetCategoryMappingsResponse" />
  </wsdl:message>
```

```
<wsdl:message
  name="SchemaService_SetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="SchemaService_CreateRankProfileWithDefaults_InputMessage">
  <wsdl:part name="parameters" element="tns:CreateRankProfileWithDefaults" />
</wsdl:message>
<wsdl:message
  name="SchemaService_CreateRankProfileWithDefaults_OutputMessage">
  <wsdl:part name="parameters" element="tns:CreateRankProfileWithDefaultsResponse" />
</wsdl:message>
<wsdl:message
  name="SchemaService_CreateRankProfileWithDefaults_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SchemaService_CreateRankProfile_InputMessage">
  <wsdl:part name="parameters" element="tns:CreateRankProfile" />
</wsdl:message>
<wsdl:message name="SchemaService_CreateRankProfile_OutputMessage">
  <wsdl:part name="parameters" element="tns:CreateRankProfileResponse" />
</wsdl:message>
<wsdl:message
  name="SchemaService_CreateRankProfile_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SchemaService_ContainsRankProfile_InputMessage">
  <wsdl:part name="parameters" element="tns:ContainsRankProfile" />
</wsdl:message>
<wsdl:message name="SchemaService_ContainsRankProfile_OutputMessage">
  <wsdl:part name="parameters" element="tns:ContainsRankProfileResponse" />
</wsdl:message>
<wsdl:message
  name="SchemaService_ContainsRankProfile_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SchemaService_GetRankProfile_InputMessage">
  <wsdl:part name="parameters" element="tns:GetRankProfile" />
</wsdl:message>
<wsdl:message name="SchemaService_GetRankProfile_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetRankProfileResponse" />
</wsdl:message>
<wsdl:message
  name="SchemaService_GetRankProfile_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message name="SchemaService_MakeDefaultRankProfile_InputMessage">
  <wsdl:part name="parameters" element="tns:MakeDefaultRankProfile" />
</wsdl:message>
<wsdl:message name="SchemaService_MakeDefaultRankProfile_OutputMessage">
  <wsdl:part name="parameters" element="tns:MakeDefaultRankProfileResponse" />
</wsdl:message>
<wsdl:message
  name="SchemaService_MakeDefaultRankProfile_AdminExceptionWCFFault_FaultMessage">
  <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
</wsdl:message>
<wsdl:message
  name="SchemaService_GetQualityComponentCollection_InputMessage">
  <wsdl:part name="parameters" element="tns:GetQualityComponentCollection" />
```

```
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetQualityComponentCollection_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetQualityComponentCollectionResponse" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetQualityComponentCollection_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SchemaService_CreateQualityComponent_InputMessage">
      <wsdl:part name="parameters" element="tns:CreateQualityComponent" />
    </wsdl:message>
    <wsdl:message name="SchemaService_CreateQualityComponent_OutputMessage">
      <wsdl:part name="parameters" element="tns:CreateQualityComponentResponse" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_CreateQualityComponent_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetFullTextIndexRankCollection_InputMessage">
      <wsdl:part name="parameters" element="tns:GetFullTextIndexRankCollection" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetFullTextIndexRankCollection_OutputMessage">
      <wsdl:part name="parameters" element="tns:GetFullTextIndexRankCollectionResponse" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetFullTextIndexRankCollection_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_CreateFullTextIndexRankComponent_InputMessage">
      <wsdl:part name="parameters" element="tns:CreateFullTextIndexRankComponent" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_CreateFullTextIndexRankComponent_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:CreateFullTextIndexRankComponentResponse" />
    </wsdl:message>
    <wsdl:message

  name="SchemaService_CreateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetFreshnessManagedPropertyReference_InputMessage">
      <wsdl:part name="parameters" element="tns:GetFreshnessManagedPropertyReference" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetFreshnessManagedPropertyReference_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:GetFreshnessManagedPropertyReferenceResponse" />
    </wsdl:message>
    <wsdl:message

  name="SchemaService_GetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage"
  >
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
```

```
    </wsdl:message>
    <wsdl:message
      name="SchemaService_SetFreshnessManagedPropertyReference_InputMessage">
      <wsdl:part name="parameters" element="tns:SetFreshnessManagedPropertyReference" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_SetFreshnessManagedPropertyReference_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:SetFreshnessManagedPropertyReferenceResponse" />
    </wsdl:message>
    <wsdl:message

  name="SchemaService_SetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultMessage"
  >
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetManagedPropertyBoostCollection_InputMessage">
      <wsdl:part name="parameters" element="tns:GetManagedPropertyBoostCollection" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_GetManagedPropertyBoostCollection_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:GetManagedPropertyBoostCollectionResponse" />
    </wsdl:message>
    <wsdl:message

  name="SchemaService_GetManagedPropertyBoostCollection_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_CreateManagedPropertyBoostComponent_InputMessage">
      <wsdl:part name="parameters" element="tns:CreateManagedPropertyBoostComponent" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_CreateManagedPropertyBoostComponent_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:CreateManagedPropertyBoostComponentResponse" />
    </wsdl:message>
    <wsdl:message

  name="SchemaService_CreateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SchemaService_UpdateRankProfile_InputMessage">
      <wsdl:part name="parameters" element="tns:UpdateRankProfile" />
    </wsdl:message>
    <wsdl:message name="SchemaService_UpdateRankProfile_OutputMessage">
      <wsdl:part name="parameters" element="tns:UpdateRankProfileResponse" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_UpdateRankProfile_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SchemaService_DeleteRankProfile_InputMessage">
      <wsdl:part name="parameters" element="tns:DeleteRankProfile" />
    </wsdl:message>
    <wsdl:message name="SchemaService_DeleteRankProfile_OutputMessage">
      <wsdl:part name="parameters" element="tns:DeleteRankProfileResponse" />
```

```
    </wsdl:message>
    <wsdl:message
      name="SchemaService_DeleteRankProfile_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_UpdateManagedPropertyBoostComponent_InputMessage">
      <wsdl:part name="parameters" element="tns:UpdateManagedPropertyBoostComponent" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:UpdateManagedPropertyBoostComponentResponse" />
    </wsdl:message>
    <wsdl:message

 name="SchemaService_UpdateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_DeleteManagedPropertyBoostComponent_InputMessage">
      <wsdl:part name="parameters" element="tns:DeleteManagedPropertyBoostComponent" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage">
      <wsdl:part name="parameters"
        element="tns:DeleteManagedPropertyBoostComponentResponse" />
    </wsdl:message>
    <wsdl:message

 name="SchemaService_DeleteManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SchemaService_SetImportanceLevelWeight_InputMessage">
      <wsdl:part name="parameters" element="tns:SetImportanceLevelWeight" />
    </wsdl:message>
    <wsdl:message name="SchemaService_SetImportanceLevelWeight_OutputMessage">
      <wsdl:part name="parameters" element="tns:SetImportanceLevelWeightResponse" />
    </wsdl:message>
    <wsdl:message
      name="SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage">
      <wsdl:part name="detail" element="tns:AdminExceptionWCF" />
    </wsdl:message>
    <wsdl:message name="SchemaService_GetImportanceLevelWeight_InputMessage">
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    </wsdl:message>
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          message="tns:SchemaService_ContainsCategoryByName_InputMessage" />
        <wsdl:output
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sCategoryByNameResponse"
        message="tns:SchemaService_ContainsCategoryByName_OutputMessage" />
      <wsdl:fault

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sCategoryByNameAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_ContainsCategoryByName_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
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        message="tns:SchemaService_DeleteCategory_AdminExceptionWCFFault_FaultMessage" />
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    <wsdl:operation name="DeleteUnmappedProperties">
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message="tns:SchemaService_DeleteUnmappedProperties_AdminExceptionWCFFault_FaultMessage" />
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        message="tns:SchemaService_GetAllCrawledProperties_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
rawledPropertiesAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetAllCrawledProperties_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetAllCrawledPropertiesCount">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
rawledPropertiesCount"
        message="tns:SchemaService_GetAllCrawledPropertiesCount_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
rawledPropertiesCountResponse"
        message="tns:SchemaService_GetAllCrawledPropertiesCount_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
rawledPropertiesCountAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetAllCrawledPropertiesCount_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="GetCrawledProperty">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
ledProperty"
        message="tns:SchemaService_GetCrawledProperty_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
ledPropertyResponse"
        message="tns:SchemaService_GetCrawledProperty_OutputMessage" />
      <wsdl:fault
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
ledPropertyAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_GetCrawledProperty_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="QueryCrawledProperties">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/QueryCr
awledProperties"
        message="tns:SchemaService_QueryCrawledProperties_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/QueryCr
awledPropertiesResponse"
        message="tns:SchemaService_QueryCrawledProperties_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/QueryCr
awledPropertiesAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_QueryCrawledProperties_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="UpdateCategory">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
ategory"
        message="tns:SchemaService_UpdateCategory_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
ategoryResponse"
        message="tns:SchemaService_UpdateCategory_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
ategoryAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_UpdateCategory_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetPropsetCategoryMappings">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetProp
setCategoryMappings"
        message="tns:SchemaService_GetPropsetCategoryMappings_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetProp
setCategoryMappingsResponse"
        message="tns:SchemaService_GetPropsetCategoryMappings_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetProp
setCategoryMappingsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage" />
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      </wsdl:operation>
      <wsdl:operation name="SetPropsetCategoryMappings">
        <wsdl:input

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  setCategoryMappings"
          message="tns:SchemaService_SetPropsetCategoryMappings_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetProp
  setCategoryMappingsResponse"
          message="tns:SchemaService_SetPropsetCategoryMappings_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetProp
  setCategoryMappingsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_SetPropsetCategoryMappings_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CreateRankProfileWithDefaults">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfileWithDefaults"
          message="tns:SchemaService_CreateRankProfileWithDefaults_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfileWithDefaultsResponse"
          message="tns:SchemaService_CreateRankProfileWithDefaults_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfileWithDefaultsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_CreateRankProfileWithDefaults_AdminExceptionWCFFault_FaultMessage"
  />
      </wsdl:operation>
      <wsdl:operation name="CreateRankProfile">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfile"
          message="tns:SchemaService_CreateRankProfile_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfileResponse"
          message="tns:SchemaService_CreateRankProfile_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateR
  ankProfileAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_CreateRankProfile_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="ContainsRankProfile">
        <wsdl:input
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    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sRankProfile"
          message="tns:SchemaService_ContainsRankProfile_InputMessage" />
        <wsdl:output

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sRankProfileResponse"
          message="tns:SchemaService_ContainsRankProfile_OutputMessage" />
        <wsdl:fault

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sRankProfileAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_ContainsRankProfile_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="GetRankProfile">
        <wsdl:input

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRank
Profile"
          message="tns:SchemaService_GetRankProfile_InputMessage" />
        <wsdl:output

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRank
ProfileResponse"
          message="tns:SchemaService_GetRankProfile_OutputMessage" />
        <wsdl:fault

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRank
ProfileAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_GetRankProfile_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="MakeDefaultRankProfile">
        <wsdl:input

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultRankProfile"
          message="tns:SchemaService_MakeDefaultRankProfile_InputMessage" />
        <wsdl:output

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultRankProfileResponse"
          message="tns:SchemaService_MakeDefaultRankProfile_OutputMessage" />
        <wsdl:fault

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultRankProfileAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

    message="tns:SchemaService_MakeDefaultRankProfile_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetQualityComponentCollection">
        <wsdl:input

    wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQual
ityComponentCollection"
          message="tns:SchemaService_GetQualityComponentCollection_InputMessage" />
        <wsdl:output
```

```
            wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQual
ityComponentCollectionResponse"
               message="tns:SchemaService_GetQualityComponentCollection_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQual
ityComponentCollectionAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

message="tns:SchemaService_GetQualityComponentCollection_AdminExceptionWCFFault_FaultMessage"
/>
        </wsdl:operation>
        <wsdl:operation name="CreateQualityComponent">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateQ
ualityComponent"
               message="tns:SchemaService_CreateQualityComponent_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateQ
ualityComponentResponse"
               message="tns:SchemaService_CreateQualityComponent_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateQ
ualityComponentAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateQualityComponent_AdminExceptionWCFFault_FaultMessage" />
        </wsdl:operation>
        <wsdl:operation name="GetFullTextIndexRankCollection">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexRankCollection"
               message="tns:SchemaService_GetFullTextIndexRankCollection_InputMessage" />
          <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexRankCollectionResponse"
               message="tns:SchemaService_GetFullTextIndexRankCollection_OutputMessage" />
          <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexRankCollectionAdminExceptionWCFFault"
               name="AdminExceptionWCFFault"

message="tns:SchemaService_GetFullTextIndexRankCollection_AdminExceptionWCFFault_FaultMessage
" />
        </wsdl:operation>
        <wsdl:operation name="CreateFullTextIndexRankComponent">
          <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexRankComponent"
               message="tns:SchemaService_CreateFullTextIndexRankComponent_InputMessage" />
          <wsdl:output
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexRankComponentResponse"
        message="tns:SchemaService_CreateFullTextIndexRankComponent_OutputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexRankComponentAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
ge" />
    </wsdl:operation>
    <wsdl:operation name="GetFreshnessManagedPropertyReference">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFres
hnessManagedPropertyReference"
        message="tns:SchemaService_GetFreshnessManagedPropertyReference_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFres
hnessManagedPropertyReferenceResponse"
        message="tns:SchemaService_GetFreshnessManagedPropertyReference_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFres
hnessManagedPropertyReferenceAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultM
essage" />
    </wsdl:operation>
    <wsdl:operation name="SetFreshnessManagedPropertyReference">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetFres
hnessManagedPropertyReference"
        message="tns:SchemaService_SetFreshnessManagedPropertyReference_InputMessage" />
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetFres
hnessManagedPropertyReferenceResponse"
        message="tns:SchemaService_SetFreshnessManagedPropertyReference_OutputMessage" />
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hnessManagedPropertyReferenceAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_SetFreshnessManagedPropertyReference_AdminExceptionWCFFault_FaultM
essage" />
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    <wsdl:operation name="GetManagedPropertyBoostCollection">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyBoostCollection"
        message="tns:SchemaService_GetManagedPropertyBoostCollection_InputMessage" />
      <wsdl:output
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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyBoostCollectionResponse"
        message="tns:SchemaService_GetManagedPropertyBoostCollection_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyBoostCollectionAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetManagedPropertyBoostCollection_AdminExceptionWCFFault_FaultMess
age" />
      </wsdl:operation>
      <wsdl:operation name="CreateManagedPropertyBoostComponent">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
anagedPropertyBoostComponent"
        message="tns:SchemaService_CreateManagedPropertyBoostComponent_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
anagedPropertyBoostComponentResponse"
        message="tns:SchemaService_CreateManagedPropertyBoostComponent_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
anagedPropertyBoostComponentAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
ssage" />
      </wsdl:operation>
      <wsdl:operation name="UpdateRankProfile">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateR
ankProfile"
        message="tns:SchemaService_UpdateRankProfile_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateR
ankProfileResponse"
        message="tns:SchemaService_UpdateRankProfile_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateR
ankProfileAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_UpdateRankProfile_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="DeleteRankProfile">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteR
ankProfile"
        message="tns:SchemaService_DeleteRankProfile_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteR
ankProfileResponse"
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```
              message="tns:SchemaService_DeleteRankProfile_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteR
  ankProfileAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_DeleteRankProfile_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="UpdateManagedPropertyBoostComponent">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedPropertyBoostComponent"
          message="tns:SchemaService_UpdateManagedPropertyBoostComponent_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedPropertyBoostComponentResponse"
          message="tns:SchemaService_UpdateManagedPropertyBoostComponent_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedPropertyBoostComponentAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_UpdateManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
  ssage" />
      </wsdl:operation>
      <wsdl:operation name="DeleteManagedPropertyBoostComponent">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedPropertyBoostComponent"
          message="tns:SchemaService_DeleteManagedPropertyBoostComponent_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedPropertyBoostComponentResponse"
          message="tns:SchemaService_DeleteManagedPropertyBoostComponent_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedPropertyBoostComponentAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_DeleteManagedPropertyBoostComponent_AdminExceptionWCFFault_FaultMe
  ssage" />
      </wsdl:operation>
      <wsdl:operation name="SetImportanceLevelWeight">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetImpo
  rtanceLevelWeight"
          message="tns:SchemaService_SetImportanceLevelWeight_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetImpo
  rtanceLevelWeightResponse"
          message="tns:SchemaService_SetImportanceLevelWeight_OutputMessage" />
        <wsdl:fault
```

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wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetImpo
rtanceLevelWeightAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_SetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage" />
     </wsdl:operation>
     <wsdl:operation name="GetImportanceLevelWeight">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetImpo
rtanceLevelWeight"
        message="tns:SchemaService_GetImportanceLevelWeight_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetImpo
rtanceLevelWeightResponse"
        message="tns:SchemaService_GetImportanceLevelWeight_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetImpo
rtanceLevelWeightAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetImportanceLevelWeight_AdminExceptionWCFFault_FaultMessage" />
     </wsdl:operation>
     <wsdl:operation name="UpdateFullTextIndexRankComponent">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
ullTextIndexRankComponent"
        message="tns:SchemaService_UpdateFullTextIndexRankComponent_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
ullTextIndexRankComponentResponse"
        message="tns:SchemaService_UpdateFullTextIndexRankComponent_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
ullTextIndexRankComponentAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_UpdateFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
ge" />
     </wsdl:operation>
     <wsdl:operation name="DeleteFullTextIndexRankComponent">
       <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexRankComponent"
        message="tns:SchemaService_DeleteFullTextIndexRankComponent_InputMessage" />
       <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexRankComponentResponse"
        message="tns:SchemaService_DeleteFullTextIndexRankComponent_OutputMessage" />
       <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexRankComponentAdminExceptionWCFFault"
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              name="AdminExceptionWCFFault"

  message="tns:SchemaService_DeleteFullTextIndexRankComponent_AdminExceptionWCFFault_FaultMessa
  ge" />
      </wsdl:operation>
      <wsdl:operation name="UpdateQualityComponent">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateQ
  ualityComponent"
          message="tns:SchemaService_UpdateQualityComponent_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateQ
  ualityComponentResponse"
          message="tns:SchemaService_UpdateQualityComponent_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateQ
  ualityComponentAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_UpdateQualityComponent_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="DeleteQualityComponent">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteQ
  ualityComponent"
          message="tns:SchemaService_DeleteQualityComponent_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteQ
  ualityComponentResponse"
          message="tns:SchemaService_DeleteQualityComponent_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteQ
  ualityComponentAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_DeleteQualityComponent_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetAllManagedProperties">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllM
  anagedProperties"
          message="tns:SchemaService_GetAllManagedProperties_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllM
  anagedPropertiesResponse"
          message="tns:SchemaService_GetAllManagedProperties_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllM
  anagedPropertiesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_GetAllManagedProperties_AdminExceptionWCFFault_FaultMessage" />
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```
      </wsdl:operation>
      <wsdl:operation name="GetAllCategories">
        <wsdl:input

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  ategories"
          message="tns:SchemaService_GetAllCategories_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
  ategoriesResponse"
          message="tns:SchemaService_GetAllCategories_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllC
  ategoriesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_GetAllCategories_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetAllFullTextIndecies">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllF
  ullTextIndecies"
          message="tns:SchemaService_GetAllFullTextIndecies_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllF
  ullTextIndeciesResponse"
          message="tns:SchemaService_GetAllFullTextIndecies_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllF
  ullTextIndeciesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_GetAllFullTextIndecies_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetAllRankProfiles">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllR
  ankProfiles"
          message="tns:SchemaService_GetAllRankProfiles_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllR
  ankProfilesResponse"
          message="tns:SchemaService_GetAllRankProfiles_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetAllR
  ankProfilesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_GetAllRankProfiles_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetQueryCrawledProperties">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQuer
  yCrawledProperties"
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          message="tns:SchemaService_GetQueryCrawledProperties_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQuer
  yCrawledPropertiesResponse"
          message="tns:SchemaService_GetQueryCrawledProperties_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetQuer
  yCrawledPropertiesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_GetQueryCrawledProperties_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CreateManagedProperty">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedProperty"
          message="tns:SchemaService_CreateManagedProperty_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedPropertyResponse"
          message="tns:SchemaService_CreateManagedProperty_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedPropertyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_CreateManagedProperty_AdminExceptionWCFFault_FaultMessage"
  />
      </wsdl:operation>
      <wsdl:operation name="SetResultFallback">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetResu
  ltFallback"
          message="tns:SchemaService_SetResultFallback_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetResu
  ltFallbackResponse"
          message="tns:SchemaService_SetResultFallback_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetResu
  ltFallbackAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_SetResultFallback_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CreateManagedPropertyMinimal">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedPropertyMinimal"
          message="tns:SchemaService_CreateManagedPropertyMinimal_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedPropertyMinimalResponse"
```

```
                message="tns:SchemaService_CreateManagedPropertyMinimal_OutputMessage" />
            <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateM
  anagedPropertyMinimalAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"

  message="tns:SchemaService_CreateManagedPropertyMinimal_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="DeleteManagedProperty">
            <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedProperty"
                message="tns:SchemaService_DeleteManagedProperty_InputMessage" />
            <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedPropertyResponse"
                message="tns:SchemaService_DeleteManagedProperty_OutputMessage" />
            <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteM
  anagedPropertyAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"
                message="tns:SchemaService_DeleteManagedProperty_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="UpdateManagedProperty">
            <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedProperty"
                message="tns:SchemaService_UpdateManagedProperty_InputMessage" />
            <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedPropertyResponse"
                message="tns:SchemaService_UpdateManagedProperty_OutputMessage" />
            <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateM
  anagedPropertyAdminExceptionWCFFault"
                name="AdminExceptionWCFFault"
                message="tns:SchemaService_UpdateManagedProperty_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="GetCrawledPropertyMappings">
            <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
  ledPropertyMappings"
                message="tns:SchemaService_GetCrawledPropertyMappings_InputMessage" />
            <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
  ledPropertyMappingsResponse"
                message="tns:SchemaService_GetCrawledPropertyMappings_OutputMessage" />
            <wsdl:fault
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCraw
ledPropertyMappingsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="SetCrawledPropertyMappings">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetCraw
ledPropertyMappings"
          message="tns:SchemaService_SetCrawledPropertyMappings_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetCraw
ledPropertyMappingsResponse"
          message="tns:SchemaService_SetCrawledPropertyMappings_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetCraw
ledPropertyMappingsAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:SchemaService_SetCrawledPropertyMappings_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="ContainsManagedProperty">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sManagedProperty"
          message="tns:SchemaService_ContainsManagedProperty_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sManagedPropertyResponse"
          message="tns:SchemaService_ContainsManagedProperty_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sManagedPropertyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:SchemaService_ContainsManagedProperty_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetManagedProperty">
        <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedProperty"
          message="tns:SchemaService_GetManagedProperty_InputMessage" />
        <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyResponse"
          message="tns:SchemaService_GetManagedProperty_OutputMessage" />
        <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
```

```
            message="tns:SchemaService_GetManagedProperty_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetManagedPropertyById">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyById"
          message="tns:SchemaService_GetManagedPropertyById_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyByIdResponse"
          message="tns:SchemaService_GetManagedPropertyById_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMana
gedPropertyByIdAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_GetManagedPropertyById_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="SetRefinerConfiguration">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetRefi
nerConfiguration"
          message="tns:SchemaService_SetRefinerConfiguration_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetRefi
nerConfigurationResponse"
          message="tns:SchemaService_SetRefinerConfiguration_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/SetRefi
nerConfigurationAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_SetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetRefinerConfiguration">
        <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRefi
nerConfiguration"
          message="tns:SchemaService_GetRefinerConfiguration_InputMessage" />
        <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRefi
nerConfigurationResponse"
          message="tns:SchemaService_GetRefinerConfiguration_OutputMessage" />
        <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRefi
nerConfigurationAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

  message="tns:SchemaService_GetRefinerConfiguration_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="GetFullTextIndexMappings">
        <wsdl:input
```

```
wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexMappings"
        message="tns:SchemaService_GetFullTextIndexMappings_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexMappingsResponse"
        message="tns:SchemaService_GetFullTextIndexMappings_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexMappingsAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetFullTextIndexMappings_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteFullTextIndexMapping">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexMapping"
        message="tns:SchemaService_DeleteFullTextIndexMapping_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexMappingResponse"
        message="tns:SchemaService_DeleteFullTextIndexMapping_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexMappingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_DeleteFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CreateFullTextIndexMapping">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexMapping"
        message="tns:SchemaService_CreateFullTextIndexMapping_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexMappingResponse"
        message="tns:SchemaService_CreateFullTextIndexMapping_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexMappingAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateFullTextIndexMapping_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="CreateFullTextIndex">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndex"
        message="tns:SchemaService_CreateFullTextIndex_InputMessage" />
```

```
            <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexResponse"
        message="tns:SchemaService_CreateFullTextIndex_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateF
ullTextIndexAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_CreateFullTextIndex_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="MakeDefaultFullTextIndex">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultFullTextIndex"
        message="tns:SchemaService_MakeDefaultFullTextIndex_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultFullTextIndexResponse"
        message="tns:SchemaService_MakeDefaultFullTextIndex_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/MakeDef
aultFullTextIndexAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_MakeDefaultFullTextIndex_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="DeleteFullTextIndex">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndex"
        message="tns:SchemaService_DeleteFullTextIndex_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexResponse"
        message="tns:SchemaService_DeleteFullTextIndex_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteF
ullTextIndexAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_DeleteFullTextIndex_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="UpdateFullTextIndex">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
ullTextIndex"
        message="tns:SchemaService_UpdateFullTextIndex_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
ullTextIndexResponse"
```

```
                message="tns:SchemaService_UpdateFullTextIndex_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateF
  ullTextIndexAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:SchemaService_UpdateFullTextIndex_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="GetMappingsForLevel">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
  ingsForLevel"
            message="tns:SchemaService_GetMappingsForLevel_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
  ingsForLevelResponse"
            message="tns:SchemaService_GetMappingsForLevel_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
  ingsForLevelAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:SchemaService_GetMappingsForLevel_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="ContainsFullTextIndex">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
  sFullTextIndex"
            message="tns:SchemaService_ContainsFullTextIndex_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
  sFullTextIndexResponse"
            message="tns:SchemaService_ContainsFullTextIndex_OutputMessage" />
          <wsdl:fault

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
  sFullTextIndexAdminExceptionWCFFault"
            name="AdminExceptionWCFFault"
            message="tns:SchemaService_ContainsFullTextIndex_AdminExceptionWCFFault_FaultMessage"
  />
        </wsdl:operation>
        <wsdl:operation name="GetFullTextIndex">
          <wsdl:input

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
  TextIndex"
            message="tns:SchemaService_GetFullTextIndex_InputMessage" />
          <wsdl:output

  wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
  TextIndexResponse"
            message="tns:SchemaService_GetFullTextIndex_OutputMessage" />
          <wsdl:fault
```

```
        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetFull
TextIndexAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_GetFullTextIndex_AdminExceptionWCFFault_FaultMessage" />
      </wsdl:operation>
      <wsdl:operation name="CreateCrawledProperty">
        <wsdl:input

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledProperty"
          message="tns:SchemaService_CreateCrawledProperty_InputMessage" />
        <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertyResponse"
          message="tns:SchemaService_CreateCrawledProperty_OutputMessage" />
        <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertyAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
          message="tns:SchemaService_CreateCrawledProperty_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="CreateCrawledPropertySimple">
        <wsdl:input

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertySimple"
          message="tns:SchemaService_CreateCrawledPropertySimple_InputMessage" />
        <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertySimpleResponse"
          message="tns:SchemaService_CreateCrawledPropertySimple_OutputMessage" />
        <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertySimpleAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateCrawledPropertySimple_AdminExceptionWCFFault_FaultMessage"
/>
      </wsdl:operation>
      <wsdl:operation name="CreateCrawledProperties">
        <wsdl:input

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledProperties"
          message="tns:SchemaService_CreateCrawledProperties_InputMessage" />
        <wsdl:output

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertiesResponse"
          message="tns:SchemaService_CreateCrawledProperties_OutputMessage" />
        <wsdl:fault

        wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
rawledPropertiesAdminExceptionWCFFault"
          name="AdminExceptionWCFFault"
```

```
message="tns:SchemaService_CreateCrawledProperties_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetMappedManagedProperties">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
edManagedProperties"
        message="tns:SchemaService_GetMappedManagedProperties_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
edManagedPropertiesResponse"
        message="tns:SchemaService_GetMappedManagedProperties_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetMapp
edManagedPropertiesAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_GetMappedManagedProperties_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="UpdateCrawledProperty">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
rawledProperty"
        message="tns:SchemaService_UpdateCrawledProperty_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
rawledPropertyResponse"
        message="tns:SchemaService_UpdateCrawledProperty_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/UpdateC
rawledPropertyAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_UpdateCrawledProperty_AdminExceptionWCFFault_FaultMessage"
/>
    </wsdl:operation>
    <wsdl:operation name="CreateCategoryProperty">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
ategoryProperty"
        message="tns:SchemaService_CreateCategoryProperty_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
ategoryPropertyResponse"
        message="tns:SchemaService_CreateCategoryProperty_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateC
ategoryPropertyAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"

message="tns:SchemaService_CreateCategoryProperty_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetCategory">
```

```
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
gory"
        message="tns:SchemaService_GetCategory_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
goryResponse"
        message="tns:SchemaService_GetCategory_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
goryAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_GetCategory_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="GetCategoryByName">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
goryByName"
        message="tns:SchemaService_GetCategoryByName_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
goryByNameResponse"
        message="tns:SchemaService_GetCategoryByName_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCate
goryByNameAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_GetCategoryByName_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
    <wsdl:operation name="ContainsCategory">
      <wsdl:input

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategory"
        message="tns:SchemaService_ContainsCategory_InputMessage" />
      <wsdl:output

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategoryResponse"
        message="tns:SchemaService_ContainsCategory_OutputMessage" />
      <wsdl:fault

wsaw:Action="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contain
sCategoryAdminExceptionWCFFault"
        name="AdminExceptionWCFFault"
        message="tns:SchemaService_ContainsCategory_AdminExceptionWCFFault_FaultMessage" />
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BasicHttpBinding_SchemaService" type="tns: SchemaService">
<wsp:PolicyReference URI="#BasicHttpBinding_SchemaService_policy"/>
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
<wsdl:operation name="ContainsCategoryByName">
      <soap12:operation
```

```
      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contains
CategoryByName"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="DeleteCategory">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteCa
tegory"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="DeleteUnmappedProperties">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteUn
mappedProperties"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetUnmappedCrawledProperties">
        <soap12:operation

      soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetUnmap
pedCrawledProperties"
          style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
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edProperty"
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tegory"
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etCategoryMappings"
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etCategoryMappings"
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nkProfileWithDefaults"
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ultRankProfile"
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tyComponentCollection"
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alityComponent"
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extIndexRankCollection"
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nessManagedPropertyReference"
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nessManagedPropertyReference"
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edPropertyBoostCollection"
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 nkProfile"
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alityComponent"
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nkProfiles"
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nagedProperty"
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edPropertyMappings"
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edPropertyMappings"
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edProperty"
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edPropertyById"
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        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="SetRefinerConfiguration">
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erConfiguration"
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        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
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        <wsdl:fault name="AdminExceptionWCFFault">
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        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetRefinerConfiguration">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetRefin
erConfiguration"
          style="document" />
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          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
          <soap12:fault name="AdminExceptionWCFFault" use="literal" />
        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="GetFullTextIndexMappings">
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extIndexMappings"
          style="document" />
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        </wsdl:input>
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        <wsdl:fault name="AdminExceptionWCFFault">
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        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="DeleteFullTextIndexMapping">
        <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/DeleteFu
llTextIndexMapping"
          style="document" />
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        <wsdl:operation name="CreateFullTextIndexMapping">
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  llTextIndexMapping"
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            <soap12:body use="literal" />
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          <wsdl:fault name="AdminExceptionWCFFault">
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        <wsdl:operation name="CreateFullTextIndex">
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  llTextIndex"
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        <wsdl:operation name="MakeDefaultFullTextIndex">
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  ultFullTextIndex"
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        <wsdl:operation name="DeleteFullTextIndex">
```

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llTextIndex"
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        <wsdl:output>
          <soap12:body use="literal" />
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        </wsdl:fault>
      </wsdl:operation>
      <wsdl:operation name="UpdateFullTextIndex">
        <soap12:operation

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llTextIndex"
          style="document" />
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      <wsdl:operation name="GetMappingsForLevel">
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ngsForLevel"
          style="document" />
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          <soap12:body use="literal" />
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      </wsdl:operation>
      <wsdl:operation name="ContainsFullTextIndex">
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soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/Contains
FullTextIndex"
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        </wsdl:output>
        <wsdl:fault name="AdminExceptionWCFFault">
```

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      </wsdl:fault>
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    <wsdl:operation name="GetFullTextIndex">
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extIndex"
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        <soap12:body use="literal" />
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    </wsdl:operation>
    <wsdl:operation name="CreateCrawledProperty">
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awledProperty"
        style="document" />
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      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
      <wsdl:fault name="AdminExceptionWCFFault">
        <soap12:fault name="AdminExceptionWCFFault" use="literal" />
      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CreateCrawledPropertySimple">
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awledPropertySimple"
        style="document" />
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        <soap12:body use="literal" />
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      <wsdl:fault name="AdminExceptionWCFFault">
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      </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="CreateCrawledProperties">
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awledProperties"
        style="document" />
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```

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    <wsdl:fault name="AdminExceptionWCFFault">
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  </wsdl:operation>
  <wsdl:operation name="GetMappedManagedProperties">
    <soap12:operation

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dManagedProperties"
      style="document" />
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      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="AdminExceptionWCFFault">
      <soap12:fault name="AdminExceptionWCFFault" use="literal" />
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="UpdateCrawledProperty">
    <soap12:operation

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awledProperty"
      style="document" />
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      <soap12:body use="literal" />
    </wsdl:input>
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      <soap12:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="AdminExceptionWCFFault">
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  </wsdl:operation>
  <wsdl:operation name="CreateCategoryProperty">
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soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/CreateCa
tegoryProperty"
      style="document" />
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    <wsdl:output>
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    <wsdl:fault name="AdminExceptionWCFFault">
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    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetCategory">
    <soap12:operation

soapAction="http://Microsoft.SharePoint.Search.Extended.Administration/SchemaService/GetCateg
ory"
```

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          <wsdl:operation name="GetCategoryByName">
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    oryByName"
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              </wsdl:input>
              <wsdl:output>
                <soap12:body use="literal" />
              </wsdl:output>
              <wsdl:fault name="AdminExceptionWCFFault">
                <soap12:fault name="AdminExceptionWCFFault" use="literal" />
              </wsdl:fault>
          </wsdl:operation>
          <wsdl:operation name="ContainsCategory">
            <soap12:operation

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    Category"
                style="document" />
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                <soap12:body use="literal" />
              </wsdl:input>
              <wsdl:output>
                <soap12:body use="literal" />
              </wsdl:output>
              <wsdl:fault name="AdminExceptionWCFFault">
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          </wsdl:operation>
       </wsdl:binding>
    <!---------SECURE BINDINGS HERE ------------------->

    </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

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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