[MS-GLOADWS]:
Global Admin Web Service Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
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06/27/2008	1.0	Major	Revised and edited the technical content
12/12/2008	1.01	Editorial	Revised and edited the technical content
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Table of Contents

1   Introduction

This document specifies the Global Admin Web Service Protocol. This protocol enables remote administration of the search application.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in 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]:

domain name
drive letter
HRESULT
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
IPv4 address in string format
SOAP
SOAP action
SOAP body
SOAP fault
system partition
Universal Naming Convention (UNC)
XML namespace

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

folder
full-text index catalog
Uniform Resource Locator (URL)
user name
website
WSDL message
WSDL operation
XML namespace prefix

The following terms are specific to this document:

full-text index propagation: A process that propagates one full-text index component.

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

1.2   References

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

1.2.1   Normative References

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

[MS-NRTP] Microsoft Corporation, ".NET Remoting: Core Protocol".

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

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, http://www.w3.org/TR/2000/NOTE-SOAP-20000508/

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, http://www.w3.org/TR/2003/REC-soap12-part1-20030624

[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

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, http://www.w3.org/TR/2001/NOTE-wsdl-20010315

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, http://www.w3.org/TR/2009/REC-xml-names-20091208/

[XMLSCHEMA1] Thompson, H.S., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/

[XMLSCHEMA2] Biron, P.V., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/

1.2.2   Informative References

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

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

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

1.3   Protocol Overview (Synopsis)

The protocol allows protocol clients to retrieve basic information about the protocol server and to configure a **folder** on the protocol server to be used as a **UNC** shared folder for **full-text index propagation**.

1.4   Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [SOAP1.1], [SOAP1.2/1] and [SOAP1.2/2]. It transmits those messages by using

HTTP, as described in [RFC2616], or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [RFC2818].

The following diagram shows the underlying messaging and transport stack used by the protocol:
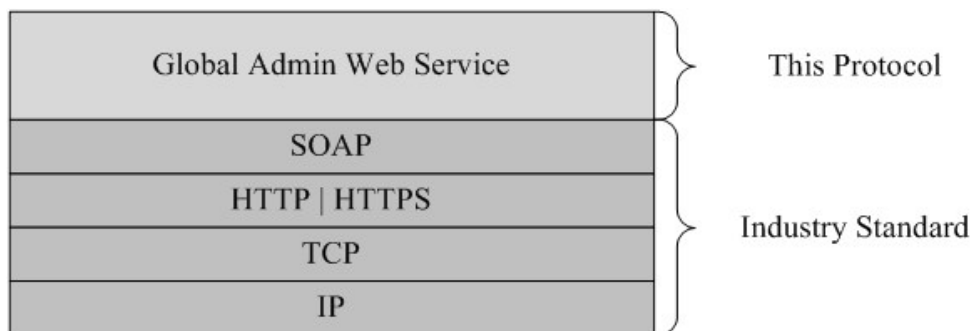
Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a **Web site** that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending "SearchAdmin.asmx" to the URL of the Web site, for example http://www.contoso.com:56737/SearchAdmin.asmx. This protocol assumes that authentication has been performed by the underlying protocols.

1.6 Applicability Statement

This protocol can be used when there are requirements for administering the search application from a remote computer.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported transports:** This protocol uses multiple transports with SOAP as described in section 2.1.

- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are described in sections 2.2 and 3.1.4.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2   Messages

2.1   Transport

Protocol servers MUST support SOAP over HTTP. Protocol servers MUST additionally support SOAP over HTTPS for securing communication with protocol clients.

Protocol messages MUST be formatted as specified either in [SOAP1.1], section 4, or in [SOAP1.2/1], section 5. Errors encountered by the hosting HTTP server MUST be returned using HTTP Status Codes as specified in [RFC2616], section 10. Protocol server faults MUST be returned using **SOAP faults** as specified either in [SOAP1.1], section 4.4, or in [SOAP1.2/1], section 5.4. The version of the SOAP fault returned MUST correspond to the version of SOAP used for the request **WSDL message**.

2.2   Common Message Syntax

This section contains common structures used by this protocol. The syntax of the structures uses the XML Schema, as specified in [XMLSCHEMA1] and [XMLSCHEMA2], and Web Services Description Language, as specified in [WSDL].

2.2.1   Namespaces

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

Prefix	Namespace URI	Reference
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
mime	http://schemas.xmlsoap.org/wsdl/mime/	
tns	http://microsoft.com/webservices/OfficeServer/Search/SearchWebService	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tm	http://microsoft.com/wsdl/mime/textMatching/	
http	http://schemas.xmlsoap.org/wsdl/http/	
soapenc	http://schemas.xmlsoap.org/soap/encoding/	
(none)	http://microsoft.com/webservices/OfficeServer/Search/SearchWebService	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

2.2.2   Messages

None.

2.2.3   Elements

This specification does not define any common XML Schema element definitions.

2.2.4   Complex Types

This specification does not define any common XML Schema complex type definitions.

2.2.5   Simple Types

This specification does not define any common XML Schema simple type definitions.

2.2.6   Attributes

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

2.2.7   Groups

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

2.2.8   Attribute Groups

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

2.2.9   Exception Types

This section specifies exceptions that are used by this protocol. The exception definitions in this section use the notation as specified in [MS-NRTP] section 2.2.5. The definitions MUST be mapped to the formats specified in either [SOAP1.1] or [SOAP1.2/1]. The instructions to map the exceptions to the SOAP format [SOAP1.1] or [SOAP1.2/1] are specified in section 3.1.4.7.

2.2.9.1   ArgumentException

ArgumentException is a derived class of **SystemException** as specified in [MS-NRTP], section 2.2.2.8. The library name of the class is **mscorlib**. There is one member other than those inherited from the **SystemException** class. This class has an additional constraint that the **HRESULT** MUST be hexadecimal value 0x80070057.

```
Namespace System
{
  Class ArgumentException:System.SystemException
  {
    String ParamName;
  }
}
```

ParamName: The parameter name of the argument that caused this exception to be raised.

3   Protocol Details

The protocol client 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   Server Details

3.1.1   Abstract Data Model

None.

3.1.2   Timers

None.

3.1.3   Initialization

None.

3.1.4   Message Processing Events and Sequencing Rules

The following table summarizes the **WSDL operations** defined by this specification.

Operation	Description
ConfigurePropagationShare	Configures a folder on the server to be used as a UNC shared folder for full-text index propagation.
DefaultInstallationIndexLocation	Retrieves the folder path to the default installation's **full-text index catalog** location for the protocol server.
IPAddress	Retrieves the **IPv4 address in string format** of the protocol server.
IsPropagationShareConfigured	Checks if a folder on the protocol server is configured as a UNC shared folder for full-text index propagation.
SystemDrive	Retrieves the **drive letter** of the protocol server's **system partition**.
ValidatePath	Validates that a folder path is a viable location to host a full-text index catalog.

3.1.4.1   ConfigurePropagationShare

This operation is used to configure a UNC shared folder for full-text index propagation using the given folder path, if the given folder path is validated to exist on the protocol server.

```
<wsdl:operation name="ConfigurePropagationShare">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Ensures that the
propagation share with the appropriate ACL.</wsdl:documentation>
    <wsdl:input message="tns:ConfigurePropagationShareSoapIn" />
    <wsdl:output message="tns:ConfigurePropagationShareSoapOut" />
```

```
</wsdl:operation>
```

The protocol client sends a **ConfigurePropagationShareSoapIn** request message and the protocol server responds with a **ConfigurePropagationShareSoapOut** response message, as follows:

If the **path** is a valid folder path (that is, a UNC path that exists and can be accessed) for the protocol server and the **account** is an existing **user name**, the protocol server MUST perform the following steps:

1. Create a folder in the specified path if one doesn't already exist.

2. Configure the folder as a UNC shared folder.

3. Grant the user name the following permissions on the UNC shared folder:

   ▪ Modify

   ▪ Read and execute

   ▪ List folder content

   ▪ Read

   ▪ Write

If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7.

3.1.4.1.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.1.1.1 ConfigurePropagationShareSoapIn

This message is the request message for **ConfigurePropagationShare** operation.

The **SOAP action** value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ConfigurePropagationSha
re
```

The **SOAP body** contains a **ConfigurePropagationShare** element.

3.1.4.1.1.2 ConfigurePropagationShareSoapOut

This message is the response message for **ConfigurePropagationShare** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ConfigurePropagationSha
re
```

The SOAP body contains a **ConfigurePropagationShareResponse** element.

3.1.4.1.2   Elements

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

3.1.4.1.2.1   ConfigurePropagationShare

This element contains the input parameters for the **ConfigurePropagationShare** operation.

```
<s:element name="ConfigurePropagationShare">
  <s:complexType>
    <s:sequence>
      <s:element name="path" type="s:string" minOccurs="1"/>
      <s:element name="account" type="s:string" minOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

path: A folder path on the protocol server. This element MUST be present. The value of this element MUST NOT be NULL, MUST NOT be empty, and MUST begin with a drive letter. The file name in the **path** MUST be less than 260 characters, and the folder name in **path** MUST be less than 248 characters.

account: The user name. This element MUST be present. The value of this element MUST NOT be NULL and MUST NOT be empty. If the **domain name** is not specified, the protocol server MUST use its own domain name.

3.1.4.1.2.2   ConfigurePropagationShareResponse

This element contains the return value for the **ConfigurePropagationShare** operation.

```
<s:element name="ConfigurePropagationShareResponse">
  <s:complexType/>
</s:element>
```

3.1.4.2   DefaultInstallationIndexLocation

This operation is used to retrieve the path to the full-text index catalog's default installation folder on the protocol server.

```
<wsdl:operation name="DefaultInstallationIndexLocation">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the default
installation index location, that is, the path to the Data folder under the application
installation root.</wsdl:documentation>
    <wsdl:input message="tns:DefaultInstallationIndexLocationSoapIn" />
    <wsdl:output message="tns:DefaultInstallationIndexLocationSoapOut" />
</wsdl:operation>
```

The protocol client sends a **DefaultInstallationIndexLocationSoapIn** request message, and the protocol server responds with a **DefaultInstallationIndexLocationSoapOut** response message, as follows:

1. If the operation is successful, the protocol server MUST send a
   DefaultInstallationIndexLocationResponse element with the value of the

DefaultInstallationIndexLocationResult element set to the path to the full-text index catalog's default installation folder on the protocol server.

2. If protocol server is unable to retrieve the path, it MUST send a **DefaultInstallationIndexLocationResponse** element with the value of the **DefaultInstallationIndexLocationResult** element set to an empty string.

3. If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7.

3.1.4.2.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.2.1.1 DefaultInstallationIndexLocationSoapIn

This message is the request message for **DefaultInstallationIndexLocation** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/DefaultInstallationInde
xLocation
```

The SOAP body contains a **DefaultInstallationIndexLocation** element.

3.1.4.2.1.2 DefaultInstallationIndexLocationSoapOut

This message is the response message for **DefaultInstallationIndexLocation** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/DefaultInstallationInde
xLocation
```

The SOAP body contains a **DefaultInstallationIndexLocationResponse** element.

3.1.4.2.2 Elements

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

3.1.4.2.2.1 DefaultInstallationIndexLocation

This element contains the input parameter for the **DefaultInstallationIndexLocation** operation.

```
<s:element name="DefaultInstallationIndexLocation">
  <s:complexType/>
</s:element>
```

3.1.4.2.2.2 DefaultInstallationIndexLocationResponse

This element contains the return value for the **DefaultInstallationIndexLocation** operation.

```
<s:element name="DefaultInstallationIndexLocationResponse">
```

```
  <s:complexType>
    <s:sequence>
      <s:element name="DefaultInstallationIndexLocationResult" type="s:string"
minOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

DefaultInstallationIndexLocationResult: The path to the full-text index catalog's default installation folder on the protocol server. This element MUST be present. The value of this element MUST NOT be NULL. The file name in the path MUST be less than 260 characters, and the folder name in the path must be less than 248 characters.

3.1.4.3 IPAddress

This operation is used to retrieve the IPv4 address in string format of the protocol server.

```
<wsdl:operation name="IPAddress">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the static IP
address of this server if one exists. Otherwise, the dynamic IP address.</wsdl:documentation>
    <wsdl:input message="tns:IPAddressSoapIn" />
    <wsdl:output message="tns:IPAddressSoapOut" />
</wsdl:operation>
```

The protocol client sends an **IPAddressSoapIn** request message, and the protocol server responds with an **IPAddressSoapOut** response message, as follows:

1. If the operation is successful, the protocol server MUST send an **IPAddressResponse** element with the value of the **IPAddressResult** element set to the IPv4 address in string representation of the protocol server.

2. If the protocol server has more than one IPv4 address, it MUST choose one to send in the response. If DHCP is enabled, return the last one, otherwise return the first one. If the protocol server has both static IPv4 address and dynamic IPv4 address, it MUST choose one static IPv4 address to send in the response message.

3. If the protocol server is unable to retrieve any IPv4 address, it MUST send an **IPAddressResponse** element with the value of the **IPAddressResult** element set to NULL.

4. If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP] section 2.2.2.7.

3.1.4.3.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.3.1.1 IPAddressSoapIn

This message is the request message for **IPAddress** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IPAddress
```

The SOAP body contains an **IPAddress** element.

3.1.4.3.1.2 IPAddressSoapOut

This message is the response message for **IPAddress** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IPAddress
```

The SOAP body contains an **IPAddressResponse** element.

3.1.4.3.2 Elements

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

3.1.4.3.2.1 IPAddress

This element contains the input parameter for the **IPAddress** operation.

```
<s:element name="IPAddress">
  <s:complexType/>
</s:element>
```

3.1.4.3.2.2 IPAddressResponse

This element contains the return value for the **IPAddress** operation.

```
<s:element name="IPAddressResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="IPAddressResult" type="s:string" minOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

IPAddressResult: IPv4 address in string format. This element MUST be present.

3.1.4.4 IsPropagationShareConfigured

This operation is used to confirm that a UNC shared folder on the protocol server exists and the specified user name has modify, read and execute, list folder content, read, and write permissions on the UNC shared folder.

```
<wsdl:operation name="IsPropagationShareConfigured">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Checks whether the
propagation share exists and whether it is configured with the appropriate
ACL.</wsdl:documentation>
    <wsdl:input message="tns:IsPropagationShareConfiguredSoapIn" />
    <wsdl:output message="tns:IsPropagationShareConfiguredSoapOut" />
</wsdl:operation>
```

The protocol client sends an **IsPropagationShareConfiguredSoapIn** request message, and the protocol server responds with an **IsPropagationShareConfiguredSoapOut** response message, as follows:

1. If the operation is successful, the protocol server MUST send an **IsPropagationShareConfiguredResponse** element with the value of the **IsPropagationShareConfiguredResult** element set to 0, 1, or 2. These values are described in the table in section 3.1.4.4.2.2.

2. If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7].

3.1.4.4.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.4.1.1 IsPropagationShareConfiguredSoapIn

This message is the request message for **IsPropagationShareConfigured** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IsPropagationShareConfi
gured
```

The SOAP body contains an **IsPropagationShareConfigured** element.

3.1.4.4.1.2 IsPropagationShareConfiguredSoapOut

This message is the response message for **IsPropagationShareConfigured** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IsPropagationShareConfi
gured
```

The SOAP body contains an **IsPropagationShareConfiguredResponse** element.

3.1.4.4.2 Elements

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

3.1.4.4.2.1 IsPropagationShareConfigured

This element contains the input parameter for the **IsPropagationShareConfigured** operation.

```
<s:element name="IsPropagationShareConfigured">
  <s:complexType>
    <s:sequence>
      <s:element name="path" type="s:string" minOccurs="1"/>
      <s:element name="account" type="s:string" minOccurs="1"/>
    </s:sequence>
  </s:complexType>
```

```
</s:element>
```

path: The folder path on the protocol server. This element MUST be present. The value of this element MUST NOT be NULL, MUST NOT be empty, and MUST begin with a drive letter.

account: The user name. This element MUST be present. The value of this element MUST NOT be NULL and MUST NOT be empty. If the domain name is not specified, the protocol server MUST use its own domain name.

If the preceding elements contain invalid values, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7.

3.1.4.4.2.2   IsPropagationShareConfiguredResponse

This element contains the return value for the **IsPropagationShareConfigured** operation.

```
<s:element name="IsPropagationShareConfiguredResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="IsPropagationShareConfiguredResult" type="s:int"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

IsPropagationShareConfiguredResult: The readiness of the UNC shared folder to serve as a full-text index propagation UNC shared folder. The following table defines the values:

Value	Meaning
2	The specified UNC shared folder and user name exist, but the user name does not have Modify, Read and Execute, List Folder Content, Read, and Write permissions to the UNC shared folder.
1	The specified folder does not exist, or is not configured as a UNC shared folder.
0	The UNC shared folder is present and has sufficient permission settings to be used for full-text index propagation.

3.1.4.5   SystemDrive

This operation is used to retrieve the drive letter of the protocol server's system partition.

```
<wsdl:operation name="SystemDrive">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the system
drive letter.</wsdl:documentation>
    <wsdl:input message="tns:SystemDriveSoapIn" />
    <wsdl:output message="tns:SystemDriveSoapOut" />
</wsdl:operation>
```

The protocol client sends a **SystemDriveSoapIn** request message, and the protocol server responds with a **SystemDriveSoapOut** response message, as follows:

1. If the operation is successful, the protocol server MUST send a **SystemDriveResponse** element with the value of the **SystemDriveResult** element set to the drive letter of the protocol server's system partition.

2. If the protocol server is unable to retrieve the drive letter, it MUST send a **SystemDriveResponse** element with the value of the **SystemDriveResult** element set to empty string.

3. If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7.

3.1.4.5.1 Messages

The following WSDL message definitions are specific to this operation.

3.1.4.5.1.1 SystemDriveSoapIn

This message is the request message for **SystemDrive** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/SystemDrive
```

The SOAP body contains a **SystemDrive** element.

3.1.4.5.1.2 SystemDriveSoapOut

This message is the response message for **SystemDrive** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/SystemDrive
```

The SOAP body contains a **SystemDriveResponse** element.

3.1.4.5.2 Elements

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

3.1.4.5.2.1 SystemDrive

This element contains the input parameter for the **SystemDrive** operation.

```
<s:element name="SystemDrive">
  <s:complexType/>
</s:element>
```

3.1.4.5.2.2 SystemDriveResponse

This element contains the return value for the **SystemDrive** operation.

```
<s:element name="SystemDriveResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="SystemDriveResult" type="s:string" minOccurs="1"/>
```

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

SystemDriveResult: The drive letter of the protocol server's system partition. This element MUST be present. The value of this element MUST be zero or one character in length.

3.1.4.6 ValidatePath

This operation is used to validate that a folder path is a viable location to host a full-text index catalog.

```
<wsdl:operation name="ValidatePath">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Validates a file system
path and a minimum amount of free disk space.</wsdl:documentation>
    <wsdl:input message="tns:ValidatePathSoapIn" />
    <wsdl:output message="tns:ValidatePathSoapOut" />
</wsdl:operation>
```

The protocol client sends a **ValidatePathSoapIn** request message and the protocol server responds with a **ValidatePathSoapOut** response message, as follows:

1. If the format of the **path** parameter does not adhere to the following pattern, the protocol server MUST send an **ArgumentException** exception as defined in section 2.2.9.1:

    1. A single upper- or lower-case character from the Latin alphabet.

    2. Followed by a single colon (:).

    3. Followed by one or more repetitions of the following pattern:

        1. A single backslash (\).

        2. Followed by one or more characters that is not any of the following: circumflex accent (^), question mark (?), slash (/), colon (:), asterisk (*), ampersand (&), left angle bracket (<), right angle bracket (>), vertical bar (|), semicolon (;), apostrophe ('), or double quote (").

    4. Followed by zero or one backslashes (\).

2. If the **path** parameter is greater than 139 characters in length, or is a relative path, or does not specify a local drive on the protocol server, or specifies a local drive that is not present, or specifies the root folder on the local drive, or specifies removable media (storage media such as memory cards or optical discs, which is designed to be removed from the computer without powering the computer off), the protocol server MUST send an **ArgumentException** exception as defined in section 2.2.9.1.

3. If the local drive on the protocol server does not have at least the amount of free space, in bytes, as specified by the **minFreeDiskSpace** parameter, the server MUST send an **ArgumentException** exception as defined in section 2.2.9.1.

4. If the operation is not successful for unspecified reasons, the protocol server MUST send an exception derived from the **System.Exception** class, as specified in [MS-NRTP], section 2.2.2.7.

5. On success, the protocol server MUST send a **ValidatePathResponse** element with the value of the **ValidatePathResult** element set to the free drive space, in bytes, of the local drive on the protocol server for the folder in the specified path.

3.1.4.6.1 Messages

3.1.4.6.1.1 ValidatePathSoapIn

This message is the request message for **ValidatePath** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ValidatePath
```

The SOAP body contains a **ValidatePath** element.

3.1.4.6.1.2 ValidatePathSoapOut

This message is the response message for **ValidatePath** operation.

The SOAP action value of the message is defined as:

```
http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ValidatePath
```

The SOAP body contains a **ValidatePathResponse** element.

3.1.4.6.2 Elements

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

3.1.4.6.2.1 ValidatePath

This element contains the input parameter for the **ValidatePath** operation.

```
<s:element name="ValidatePath">
  <s:complexType>
    <s:sequence>
      <s:element name="path" type="s:string" minOccurs="1"/>
      <s:element name="minFreeDiskSpace" type="s:long" minOccurs="1"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

path: The folder path on the protocol server. This element MUST be present. The value of this element MUST NOT be NULL, MUST NOT be empty, MUST begin with a drive letter, and MUST be less than 140 characters in length.

minFreeDiskSpace: Minimum free drive space required, in bytes. The following table defines the values for this parameter.

Value	Meaning
Positive	Operation MUST be successful if the specified path is valid and minimum free drive space requirement is met.
Zero or Negative	Operation MUST be successful if the specified path is valid.

3.1.4.6.2.2 ValidatePathResponse

This element contains the return value for the **ValidatePath** operation.

```
<s:element name="ValidatePathResponse">
  <s:complexType>
    <s:sequence>
      <s:element name="ValidatePathResult" type="s:long"/>
    </s:sequence>
  </s:complexType>
</s:element>
```

ValidatePathResult: The free disk drive space, in bytes, of the local drive on the protocol server containing the specified folder. This value MUST be zero or positive.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4   Protocol Examples

This section contains examples that show the interaction between the protocol client and the protocol server using messaging protocol for formatting requests and responses as specified in [SOAP1.1].

4.1   SystemDrive Method

The protocol client sends the following SOAP message to the protocol server invoking the **SystemDrive** operation to retrieve the drive letter of the protocol server's system partition:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <SystemDrive
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService" />
    </soap:Body>
</soap:Envelope>
```

On success, the protocol server sends the following response back to the protocol client:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <SystemDriveResponse
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">
            <SystemDriveResult>C</SystemDriveResult>
        </SystemDriveResponse>
    </soap:Body>
</soap:Envelope>
```

4.2   ValidatePath Method

The client sends the following SOAP message to the protocol server invoking the **ValidatePath** operation to validate that the folder path Z:\foldername is a viable location to host a full-text index catalog on the protocol server:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <ValidatePath
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">
            <path>Z:\foldername</path>
            <minFreeDiskSpace>2344034304</minFreeDiskSpace>
        </ValidatePath>
    </soap:Body>
</soap:Envelope>
```

Release: April 30, 2014

4.2.1 Response For Valid Path

The folder path is valid, so the protocol server sends the following response back to the protocol client:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <ValidatePathResponse
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">
            <ValidatePathResult>4688068608</ValidatePathResult>
        </ValidatePathResponse>
    </soap:Body>
</soap:Envelope>
```

4.2.2 Response For Invalid Path

The folder path is not valid because there is no Z drive on the protocol server, so the protocol server sends the following response back to the protocol client:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <soap:Fault>
            <faultcode>soap:Server</faultcode>
            <faultstring>The path for the index location is not valid.</faultstring>
            <faultactor>http://www.contoso.com:56737/SearchAdmin.asmx</faultactor>
            <detail>
                <exception
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">åŒ¼ä…□âµ□ä¹…ã©‐
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```

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```
            </detail>
        </soap:Fault>
    </soap:Body>
</soap:Envelope>
```

The value of the exception element is the UTF-16 string representation of the following serialized exception:

```
<SOAP-ENV:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:clr="http://schemas.microsoft.com/soap/encoding/clr/1.0" SOAP-
ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
    <SOAP-ENV:Body>
        <a1:ArgumentException id="ref-1"
xmlns:a1="http://schemas.microsoft.com/clr/ns/System">
            <ClassName id="ref-2">System.ArgumentException</ClassName>
            <Message id="ref-3">The path for the index location is not valid.</Message>
            <Data xsi:null="1"/>
            <InnerException xsi:null="1"/>
            <HelpURL xsi:null="1"/>
            <StackTraceString id="ref-4">
                at
Microsoft.Office.Server.Search.Administration.SearchAdminUtils.ValidatePath(String path,
Int64 minFreeDiskSpace)
                at
Microsoft.Office.Server.Search.Administration.SearchWebService.RunWithSoapExceptionHandling[T
](CodeRequiresSoapExceptionHandling`1 webMethodCode, Boolean impersonateLocalAdmin)
            </StackTraceString>
            <RemoteStackTraceString xsi:null="1"/>
            <RemoteStackIndex>0</RemoteStackIndex>
            <ExceptionMethod id="ref-5">
                8
                ValidatePath
                Microsoft.Office.Server.Search, Version=12.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce111e9429c
                Microsoft.Office.Server.Search.Administration.SearchAdminUtils
                Int64 ValidatePath(System.String, Int64)
            </ExceptionMethod>
            <HResult>-2147024809</HResult>
            <Source id="ref-6">Microsoft.Office.Server.Search</Source>
            <ParamName xsi:null="1"/>
        </a1:ArgumentException>
    </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

4.3 ConfigurePropagationShare Method

To configure a folder on the server to be used as a UNC shared folder for full-text index propagation, the protocol client sends the following request to the protocol server:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
    <soap:Body>
        <ConfigurePropagationShare
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">
            <path>C:\foldername</path>
            <account>username</account>
        </ConfigurePropagationShare>
    </soap:Body>
</soap:Envelope>
```

On success, the protocol server sends the following response back to the protocol client:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <soap:Body>
        <ConfigurePropagationShareResponse
xmlns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService" />
    </soap:Body>
</soap:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

This protocol introduces no additional security considerations beyond those applicable to its underlying protocols.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is as follows:

```xml
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
xmlns:tns="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
targetNamespace="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Office SharePoint Server
2007 Administration Web Service</wsdl:documentation>
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService">
      <s:element name="ValidatePath">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="path" type="s:string" />
            <s:element minOccurs="1" maxOccurs="1" name="minFreeDiskSpace" type="s:long" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="ValidatePathResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="ValidatePathResult" type="s:long" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="DefaultInstallationIndexLocation">
        <s:complexType />
      </s:element>
      <s:element name="DefaultInstallationIndexLocationResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1"
name="DefaultInstallationIndexLocationResult" type="s:string" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="SystemDrive">
        <s:complexType />
      </s:element>
      <s:element name="SystemDriveResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="SystemDriveResult" type="s:string"
/>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="IPAddress">
        <s:complexType />
```

```
        </s:element>
        <s:element name="IPAddressResponse">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="1" maxOccurs="1" name="IPAddressResult" type="s:string" />
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="ConfigurePropagationShare">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="1" maxOccurs="1" name="path" type="s:string" />
              <s:element minOccurs="1" maxOccurs="1" name="account" type="s:string" />
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="ConfigurePropagationShareResponse">
          <s:complexType />
        </s:element>
        <s:element name="IsPropagationShareConfigured">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="1" maxOccurs="1" name="path" type="s:string" />
              <s:element minOccurs="1" maxOccurs="1" name="account" type="s:string" />
            </s:sequence>
          </s:complexType>
        </s:element>
        <s:element name="IsPropagationShareConfiguredResponse">
          <s:complexType>
            <s:sequence>
              <s:element minOccurs="1" maxOccurs="1" name="IsPropagationShareConfiguredResult"
  type="s:int" />
            </s:sequence>
          </s:complexType>
        </s:element>
      </s:schema>
    </wsdl:types>
    <wsdl:message name="ValidatePathSoapIn">
      <wsdl:part name="parameters" element="tns:ValidatePath" />
    </wsdl:message>
    <wsdl:message name="ValidatePathSoapOut">
      <wsdl:part name="parameters" element="tns:ValidatePathResponse" />
    </wsdl:message>
    <wsdl:message name="DefaultInstallationIndexLocationSoapIn">
      <wsdl:part name="parameters" element="tns:DefaultInstallationIndexLocation" />
    </wsdl:message>
    <wsdl:message name="DefaultInstallationIndexLocationSoapOut">
      <wsdl:part name="parameters" element="tns:DefaultInstallationIndexLocationResponse" />
    </wsdl:message>
    <wsdl:message name="SystemDriveSoapIn">
      <wsdl:part name="parameters" element="tns:SystemDrive" />
    </wsdl:message>
    <wsdl:message name="SystemDriveSoapOut">
      <wsdl:part name="parameters" element="tns:SystemDriveResponse" />
    </wsdl:message>
    <wsdl:message name="IPAddressSoapIn">
      <wsdl:part name="parameters" element="tns:IPAddress" />
    </wsdl:message>
    <wsdl:message name="IPAddressSoapOut">
```

```
        <wsdl:part name="parameters" element="tns:IPAddressResponse" />
      </wsdl:message>
      <wsdl:message name="ConfigurePropagationShareSoapIn">
        <wsdl:part name="parameters" element="tns:ConfigurePropagationShare" />
      </wsdl:message>
      <wsdl:message name="ConfigurePropagationShareSoapOut">
        <wsdl:part name="parameters" element="tns:ConfigurePropagationShareResponse" />
      </wsdl:message>
      <wsdl:message name="IsPropagationShareConfiguredSoapIn">
        <wsdl:part name="parameters" element="tns:IsPropagationShareConfigured" />
      </wsdl:message>
      <wsdl:message name="IsPropagationShareConfiguredSoapOut">
        <wsdl:part name="parameters" element="tns:IsPropagationShareConfiguredResponse" />
      </wsdl:message>
      <wsdl:portType name="SearchWebServiceSoap">
        <wsdl:operation name="ValidatePath">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Validates a file
  system path and a minimum amount of free disk space.</wsdl:documentation>
          <wsdl:input message="tns:ValidatePathSoapIn" />
          <wsdl:output message="tns:ValidatePathSoapOut" />
        </wsdl:operation>
        <wsdl:operation name="DefaultInstallationIndexLocation">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the default
  installation index location, that is, the path to the Data folder under the application
  installation root.</wsdl:documentation>
          <wsdl:input message="tns:DefaultInstallationIndexLocationSoapIn" />
          <wsdl:output message="tns:DefaultInstallationIndexLocationSoapOut" />
        </wsdl:operation>
        <wsdl:operation name="SystemDrive">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the system
  drive letter.</wsdl:documentation>
          <wsdl:input message="tns:SystemDriveSoapIn" />
          <wsdl:output message="tns:SystemDriveSoapOut" />
        </wsdl:operation>
        <wsdl:operation name="IPAddress">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Returns the static IP
  address of this server if one exists. Otherwise, the dynamic IP address.</wsdl:documentation>
          <wsdl:input message="tns:IPAddressSoapIn" />
          <wsdl:output message="tns:IPAddressSoapOut" />
        </wsdl:operation>
        <wsdl:operation name="ConfigurePropagationShare">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Ensures that the
  propagation share with the appropriate ACL.</wsdl:documentation>
          <wsdl:input message="tns:ConfigurePropagationShareSoapIn" />
          <wsdl:output message="tns:ConfigurePropagationShareSoapOut" />
        </wsdl:operation>
        <wsdl:operation name="IsPropagationShareConfigured">
          <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Checks whether the
  propagation share exists and whether it is configured with the appropriate
  ACL.</wsdl:documentation>
          <wsdl:input message="tns:IsPropagationShareConfiguredSoapIn" />
          <wsdl:output message="tns:IsPropagationShareConfiguredSoapOut" />
        </wsdl:operation>
      </wsdl:portType>
      <wsdl:binding name="SearchWebServiceSoap" type="tns:SearchWebServiceSoap">
        <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
        <wsdl:operation name="ValidatePath">
          <soap:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ValidatePat
  h" style="document" />
```

```
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DefaultInstallationIndexLocation">
      <soap:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/DefaultInst
allationIndexLocation" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SystemDrive">
      <soap:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/SystemDrive
" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="IPAddress">
      <soap:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IPAddress"
style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ConfigurePropagationShare">
      <soap:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ConfigurePr
opagationShare" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="IsPropagationShareConfigured">
      <soap:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IsPropagati
onShareConfigured" style="document" />
      <wsdl:input>
        <soap:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" />
```

```
          </wsdl:output>
        </wsdl:operation>
      </wsdl:binding>
    <wsdl:binding name="SearchWebServiceSoap12" type="tns:SearchWebServiceSoap">
      <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" />
      <wsdl:operation name="ValidatePath">
        <soap12:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ValidatePat
  h" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DefaultInstallationIndexLocation">
        <soap12:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/DefaultInst
  allationIndexLocation" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SystemDrive">
        <soap12:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/SystemDrive
  " style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="IPAddress">
        <soap12:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IPAddress"
  style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ConfigurePropagationShare">
        <soap12:operation
  soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/ConfigurePr
  opagationShare" style="document" />
        <wsdl:input>
          <soap12:body use="literal" />
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal" />
        </wsdl:output>
      </wsdl:operation>
```

```
  <wsdl:operation name="IsPropagationShareConfigured">
    <soap12:operation
soapAction="http://microsoft.com/webservices/OfficeServer/Search/SearchWebService/IsPropagati
onShareConfigured" style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

7   Appendix B: Product Behavior

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

- Microsoft Office SharePoint Server 2007

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.

9 Index