

[MS-SLIDELI]: Slide Library Web Service Protocol

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Revision Summary

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Date	Revision History	Revision Class	Comments
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Table of Contents

1 Introduction	6
1.1 Glossary	6
1.2 References	6
1.2.1 Normative References	6
1.2.2 Informative References	7
1.3 Overview	7
1.4 Relationship to Other Protocols	8
1.5 Prerequisites/Preconditions	8
1.6 Applicability Statement	8
1.7 Versioning and Capability Negotiation	8
1.8 Vendor-Extensible Fields	8
1.9 Standards Assignments	8
2 Messages	9
2.1 Transport	9
2.2 Common Message Syntax	9
2.2.1 Namespaces	9
2.2.2 Messages	9
2.2.3 Elements	10
2.2.3.1 strListUrl	10
2.2.4 Complex Types	10
2.2.4.1 ArrayOfString	10
2.2.4.2 CT_Result	10
2.2.4.3 CT_SlideResult	11
2.2.5 Simple Types	12
2.2.5.1 ST_TrueFalse	12
2.2.6 Attributes	12
2.2.7 Groups	12
2.2.8 Attribute Groups	12
3 Protocol Details	13
3.1 SlideLibrarySoap Server Details	13
3.1.1 Abstract Data Model	13
3.1.2 Timers	14
3.1.3 Initialization	14
3.1.4 Message Processing Events and Sequencing Rules	14
3.1.4.1 CheckCollisions	14
3.1.4.1.1 Messages	15
3.1.4.1.1.1 CheckCollisionsSoapIn	15
3.1.4.1.1.2 CheckCollisionsSoapOut	15
3.1.4.1.2 Elements	15
3.1.4.1.2.1 CheckCollisions	15
3.1.4.1.2.2 CheckCollisionsResponse	16
3.1.4.2 GetSlidesXML	17
3.1.4.2.1 Messages	17
3.1.4.2.1.1 GetSlidesXMLSoapIn	17
3.1.4.2.1.2 GetSlidesXMLSoapOut	17
3.1.4.2.2 Elements	18
3.1.4.2.2.1 GetSlidesXML	18
3.1.4.2.2.2 GetSlidesXMLResponse	18

3.1.4.3	GetSlideInfoByIds	19
3.1.4.3.1	Messages	19
3.1.4.3.1.1	GetSlideInfoByIdsSoapIn	19
3.1.4.3.1.2	GetSlideInfoByIdsSoapOut	19
3.1.4.3.2	Elements	20
3.1.4.3.2.1	GetSlideInfoByIds	20
3.1.4.3.2.2	GetSlideInfoByIdsResponse	20
3.1.4.4	Search	21
3.1.4.4.1	Messages	21
3.1.4.4.1.1	SearchSoapIn	21
3.1.4.4.1.2	SearchSoapOut	21
3.1.4.4.2	Elements	22
3.1.4.4.2.1	Search	22
3.1.4.4.2.2	SearchResponse	22
3.1.5	Timer Events	23
3.1.6	Other Local Events	23
4	Protocol Examples	24
5	Security	25
5.1	Security Considerations for Implementers	25
5.2	Index of Security Parameters	25
6	Appendix A: Full WSDL	26
7	Appendix B: Product Behavior	32
8	Change Tracking	33
9	Index	34

1 Introduction

The Slide Library Web Service Protocol enables a protocol client to obtain information about slides on a protocol server.

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

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
language code identifier (LCID)
SOAP
SOAP action
SOAP body
SOAP fault
SOAP message
universally unique identifier (UUID)
XML namespace

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

checked out
document
folder
slide
Slide Library
Uniform Resource Locator (URL)
Web Services Description Language (WSDL)
website
WSDL message
XML namespace prefix
XML schema

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 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.

[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>

[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., Eds., 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., 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-AUTHWS] Microsoft Corporation, "[Authentication Web Service Protocol](#)".

[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>

[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>

1.3 Overview

This protocol enables a protocol client to send a request to the protocol server and then to receive from the protocol server information about the existence of named slides, information about all

slides, information about slides specified by their identifiers, or information about slides that contain specific search strings.

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:

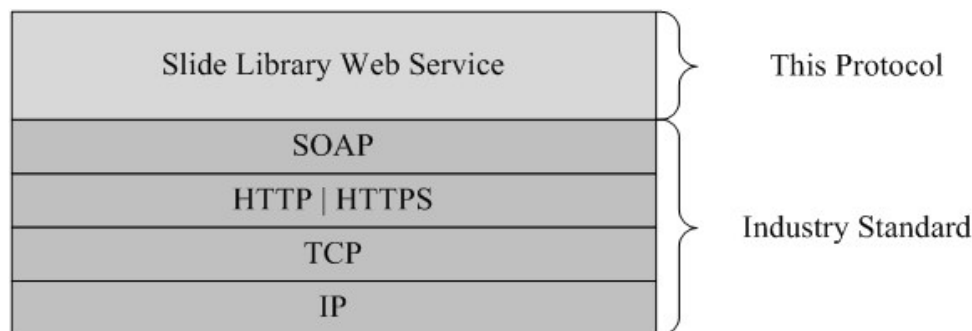


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a **website (2)** that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending `"/_vti_bin/SlideLibrary.asmx"` to the URL of the Web site, for example `http://www.contoso.com/Repository/_vti_bin/SlideLibrary.asmx`.

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

1.6 Applicability Statement

This protocol is designed to retrieve information about **slides** that are stored on the protocol server.

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 specified in section [2.1](#).

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

In the following sections, the schema definition might be less restrictive than 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 specifies additional restrictions 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, not null, and present.

2.1 Transport

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

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

2.2 Common Message Syntax

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

2.2.1 Namespaces

This specification uses the following **XML namespaces** (see [\[XMLNS\]](#) for information about XML namespaces). Although this specification associates a specific **XML namespace prefix** with each XML namespace that it uses, the choice of any particular XML namespace prefix is an encoding detail and not significant for interoperability. These namespaces are described in the following table.

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[WSDL]
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[WSDL]
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
tns	http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

2.2.2 Messages

The following table summarizes common WSDL messages defined by this specification.

Message	Description
SOAP Fault	A response message to carry the server-side exception as specified in section 4.4 of [SOAP1.1]

2.2.3 Elements

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

Element	Description
strListUrl	A string that represents the URL of a folder in a Slide Library on the protocol server.

2.2.3.1 strListUrl

This element is a string that represents the URL of a folder in a Slide Library on the protocol server.

2.2.4 Complex Types

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

Complex type	Description
ArrayOfString	A list of strings.
CT_Result	The result of a Slide Library Web Service operation.
CT_SlideResult	A child element of CT_Result that contains information about a slide.

2.2.4.1 ArrayOfString

This complex type represents a list of strings.

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

string: Each element MUST represent a string.

2.2.4.2 CT_Result

This complex type represents the result in response to a Slide Library Web Service request.

```
<s:complexType name="CT_Result">
  <s:sequence>
    <s:element minOccurs="1" maxOccurs="1" name="Title" type="s:string" />
    <s:element minOccurs="1" maxOccurs="1" name="Url" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1" name="ForceCheckout"
      type="tns:ST_TrueFalse" />
    <s:element minOccurs="0" maxOccurs="unbounded" name="Slide"
      type="tns:CT_SlideResult" />
  </s:sequence>
```

```
</s:complexType>
```

Title: This element represents the title of the Slide library.

Url: This element represents the URL of the Slide library.

ForceCheckout: This element represents information about the slides that are **checked out** as a side effect of the operation. If **ForceCheckout** is set to "true" or "True", the slides are checked out. Otherwise, if **ForceCheckout** is set to "false" or "False", the slides are not checked out. If this element is absent, the value "false" MUST be assumed.

Slide: This element represents information about each slide to be returned.

2.2.4.3 CT_SlideResult

This complex type represents the child element of **CT_Result**, which is the result of a Slide Library Web Service operation for a slide.

```
<s:complexType name="CT_SlideResult">
  <s:attribute use="optional" name="FileName" type="s:string" />
  <s:attribute use="optional" name="Description" type="s:string" />
  <s:attribute use="optional" name="Editor" type="s:string" />
  <s:attribute use="optional" name="EncodedAbsThumbnailUrl" type="s:string" />
  <s:attribute use="required" name="Modified" type="s:string" />
  <s:attribute use="required" name="ID" type="s:unsignedInt" />
  <s:attribute use="required" name="EncodedAbsUrl" type="s:string" />
  <s:attribute use="optional" name="Presentation" type="s:string" />
  <s:attribute use="optional" name="UniqueId" type="s:string" />
</s:complexType>
```

FileName: Specifies everything after the last slash in the **EncodedAbsUrl** for a slide.

Description: Specifies the **SlideDescription** field from the metadata of the slide.

Editor: Specifies the editor who last modified the slide.

EncodedAbsThumbnailUrl: Specifies the URL to a thumbnail of the slide.

Modified: Specifies the string representation of the time the slide was last modified. The value MUST be in [\[ISO-8601\]](#) format.

ID: Specifies the unique identifier of the slide in a Slide Library.

EncodedAbsUrl: Specifies the URL of the slide **document**.

Presentation: Specifies the name of the document from which the slide originated.

UniqueId: Specifies the unique identifier of the slide maintained by the protocol server. The scope of this identifier is within the protocol server. The value MUST be the string representation of a **UUID**.

2.2.5 Simple Types

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

Simple type	Description
ST_Boolean	A string type that allows a set of possible values.

2.2.5.1 ST_Boolean

This simple type represents a string that MUST be from a list of allowed values.

```
<s:simpleType name="ST_Boolean">  
  <s:restriction base="s:string">  
    <s:enumeration value="true"/>  
    <s:enumeration value="false"/>  
    <s:enumeration value="True"/>  
    <s:enumeration value="False"/>  
  </s:restriction>  
</s:simpleType>
```

The list of allowed string values is specified by the following table.

Allowed Value
True
False
true
false

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.

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**, **not null**, and **present**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls 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 SlideLibrarySoap Server Details

The following diagram describes the communication between the protocol client and the protocol server.

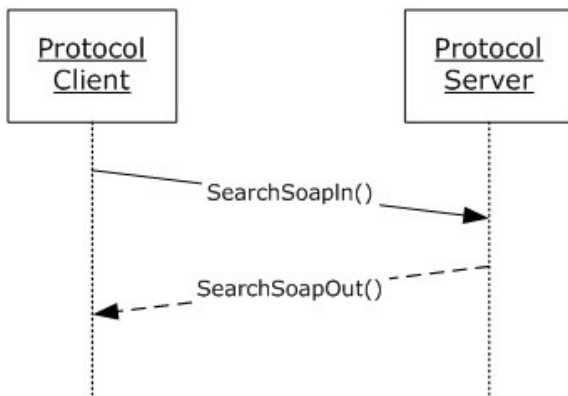


Figure 2: Sample communication between protocol client and protocol server

The protocol client sends a **SearchSoapIn SOAP message** to the protocol server.

The protocol server responds by sending a **SearchSoapOut** SOAP message to the protocol client.

3.1.1 Abstract Data Model

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

The protocol server maintains a list of files which can be referenced uniquely by URL. The files contain a presentation application file that has a single slide, and have associated metadata as fields.

The following diagram shows the abstract data model.

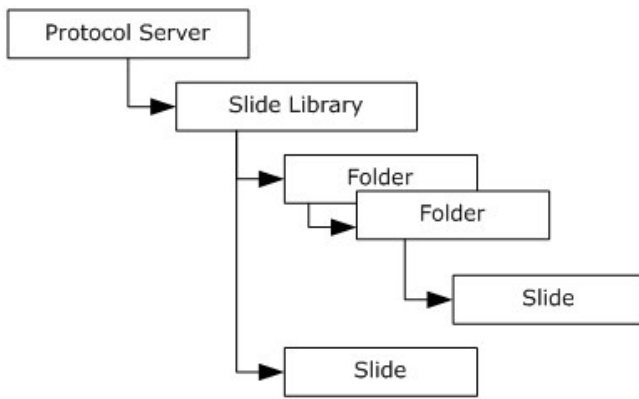


Figure 3: Abstract data model for Slide Library

3.1.2 Timers

None.

3.1.3 Initialization

The protocol server MUST expose its Web methods at the following URL, which builds upon a base URL. The URL MUST conform to the following structure: *base URL/_vti_bin/SlideLibrary.asmx*. This is the minimal required structure. Case-sensitivity is specific to the protocol server implementation.

3.1.4 Message Processing Events and Sequencing Rules

Operation	Description
CheckCollisions	This operation is used to check the existence of named slides in a folder of a Slide library.
GetSlidesXML	This operation is used to get information about all slides in a folder of a slide library.
GetSlideInfoByIds	This operation is used to get information about slides specified by their identifiers in a folder of a slide library.
Search	This operation is used to search for slides that contain the specified search string in a folder of slide library.

3.1.4.1 CheckCollisions

The **CheckCollisions** operation is used to check the existence of named slides in a folder of slide library.

```

<wsdl:operation name="CheckCollisions">
  <wsdl:input message="tns:CheckCollisionsSoapIn" />
  <wsdl:output message="tns:CheckCollisionsSoapOut" />
</wsdl:operation>
  
```

The protocol client sends a **CheckCollisionsSoapIn** request message and the protocol server responds with a **CheckCollisionsSoapOut** response message.

3.1.4.1.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
CheckCollisionsSoapIn	The request message for checking the existence of named slides in the slide library.
CheckCollisionsSoapOut	The response message to a CheckCollisionsSoapIn request message.

3.1.4.1.1.1 CheckCollisionsSoapIn

This is the request message for checking the existence of named slides in the slide library.

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

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/CheckCollisions
```

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

3.1.4.1.1.2 CheckCollisionsSoapOut

The **CheckCollisionsSoapOut** message is the response to a **CheckCollisionsSoapIn** request message.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/CheckCollisions
```

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

3.1.4.1.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
CheckCollisions	Specifies the input parameters for a CheckCollisions operation.
CheckCollisionsResponse	Specifies the output of a CheckCollisions operation.

3.1.4.1.2.1 CheckCollisions

The **CheckCollisions** element specifies the input parameters for a **CheckCollisions** operation.

```
<s:element name="CheckCollisions">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="strListUrl" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="slideNames">
```

```

        type="tns:ArrayOfString" />
    </s:sequence>
</s:complexType>
</s:element>

```

strListUri: This element MUST be present, as specified in section [2.2.3.1](#).

slideNames: This element specifies a list of strings, where each string represents the file name of a slide to be checked.

If **slideNames** is present, each **string** MUST NOT be empty and MUST NOT contain any of the following characters:

- Double backslash (\\)
- Colon (:)
- Asterisk (*)
- Question mark (?)
- Apostrophe (')
- Left angle bracket (<)
- Right angle bracket (>)
- Vertical bar (|)
- Number sign (#)
- \t
- Left curly brace ({)
- Right curly brace (})
- Percent sign (%)

3.1.4.1.2.2 CheckCollisionsResponse

The **CheckCollisionsResponse** element specifies the output of a **CheckCollisions** operation.

```

<s:element name="CheckCollisionsResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="CheckCollisionsResult">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="results"
              type="tns:CT_Result" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>

```


</s:element>

CheckCollisionsResult: This element specifies the result of the **CheckCollisions** operation.

CheckCollisionsResult.results: This element specifies the result of the **CheckCollisions** operation.

If no slides exist with the file names specified in **slideNames**, the protocol server MUST return a fault. Otherwise, the protocol server MUST send a **CheckCollisionsSoapOut** message.

If a **string** is a file name for a slide in the folder of slide library, the **CheckCollisionsSoapOut** message MUST include a single **results** element with a **Slide** element for each of the slides, and the **Slide** element MUST contain the **FileName** attribute.

3.1.4.2 GetSlidesXML

The **GetSlidesXML** operation is used to get the information for all slides in a folder of the slide library.

```
<wsdl:operation name="GetSlidesXML">
  <wsdl:input message="tns:GetSlidesXMLSoapIn" />
  <wsdl:output message="tns:GetSlidesXMLSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetSlidesXMLSoapIn** request message, and the protocol server responds with a **GetSlidesXMLSoapOut** response message.

3.1.4.2.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetSlideXMLSoapIn	The request message for getting information about slides in a slide library.
GetSlideXMLSoapOut	The response message to a GetSlidesXMLSoapIn request message.

3.1.4.2.1.1 GetSlidesXMLSoapIn

This is the request message for getting information about slides in a slide library.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlidesXML
```

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

3.1.4.2.1.2 GetSlidesXMLSoapOut

This is the response message to a **GetSlidesXMLSoapIn** request message.

The SOAP action value of the message is defined as:

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

3.1.4.2.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
GetSlidesXML	Specifies the input parameters of the GetSlidesXML operation.
GetSlidesXMLResponse	Specifies the output of the GetSlidesXML operation.

3.1.4.2.2.1 GetSlidesXML

The **GetSlidesXML** element specifies the input parameters of the **GetSlidesXML** operation.

```
<s:element name="GetSlidesXML">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="strListUrl" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>
```

strListUrl: This element MUST be present, as specified in section [2.2.3.1](#).

3.1.4.2.2.2 GetSlidesXMLResponse

The **GetSlidesXMLResponse** element specifies the output of the **GetSlidesXML** operation.

```
<s:element name="GetSlidesXMLResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="GetSlidesXMLResult">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="results"
              type="tns:CT_Result" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetSlidesXMLResult: This element specifies the result of the **GetSlidesXML** operation.

GetSlidesXMLResult.results: This element specifies the result of the **GetSlidesXML** operation.

If **strListUrl** is not present in the **GetSlidesXMLSoapIn** message or is not a folder of a slide library, the protocol server MUST return a fault.

Otherwise, the protocol server MUST send a **GetSlidesXMLSoapOut** message, including a single **results** element with a **Slide** element for each of the slides in the folder of the slide library.

3.1.4.3 GetSlideInfoByIds

The **GetSlideInfoByIds** operation is used to get information about slides specified by their identifiers in a folder of a slide library.

```
<wsdl:operation name="GetSlideInfoByIds">
  <wsdl:input message="tns:GetSlideInfoByIdsSoapIn" />
  <wsdl:output message="tns:GetSlideInfoByIdsSoapOut" />
</wsdl:operation>
```

The protocol client sends a **GetSlideInfoByIdsSoapIn** request message and the protocol server responds with a **GetSlideInfoByIdsSoapOut** response message.

3.1.4.3.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
GetSlideInfoByIdsSoapIn	The request message for getting information about specific slides in a slide library.
GetSlideInfoByIdsSoapOut	The response message to a GetSlideInfoByIdsSoapIn request message.

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

3.1.4.3.1.1 GetSlideInfoByIdsSoapIn

This is the request message for getting information about specific slides in a slide library.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlideInfoByIds
```

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

3.1.4.3.1.2 GetSlideInfoByIdsSoapOut

This is the response message to a **GetSlideInfoByIdsSoapIn** request message.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlideInfoByIds
```

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

3.1.4.3.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
GetSlideInfoByIds	Specifies the input parameters of a GetSlideInfoByIds operation.
GetSlideInfoByIdsResponse	Specifies the output of a GetSlideInfoByIds operation.

3.1.4.3.2.1 GetSlideInfoByIds

The **GetSlideInfoByIds** element specifies the input parameters of a **GetSlideInfoByIds** operation.

```
<s:element name="GetSlideInfoByIds">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="strListUrl" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="slideids"
        type="tns:ArrayOfString" />
    </s:sequence>
  </s:complexType>
</s:element>
```

strListUrl: This element MUST be present, as specified in section [2.2.3.1](#).

slideids: List of identifiers of the slides to be checked.

3.1.4.3.2.2 GetSlideInfoByIdsResponse

The **GetSlideInfoByIdsResponse** element specifies the output of a **GetSlideInfoByIds** operation.

```
<s:element name="GetSlideInfoByIdsResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="GetSlideInfoByIdsResult">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="results"
              type="tns:CT_Result" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

GetSlideInfoByIdsResult: This element specifies the result of the **GetSlideInfoByIds** operation.

GetSlideInfoByIdsResult.results: This element specifies the result of the **GetSlideInfoByIds** operation.

The protocol server MUST send a **GetSlideInfoByIdsSoapOut** message.

If a **string** in the **slideids** list matches a string representation of the identifier of a slide in a folder of the slide library, the **GetSlideInfoByIdsSoapOut** message MUST include a single **results** element with a **Slide** element for each of the slides.

3.1.4.4 Search

This operation is used to search for slides that contain the specified search string in a folder of slide library.

```
<wsdl:operation name="Search">
  <wsdl:input message="tns:SearchSoapIn" />
  <wsdl:output message="tns:SearchSoapOut" />
</wsdl:operation>
```

The protocol client sends a **SearchSoapIn** request message and the protocol server responds with a **SearchSoapOut** response message.

3.1.4.4.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

Message	Description
SearchSoapIn	The request message for getting information about slides that contain the specified search string in the slide library.
SearchSoapOut	The response message to a SearchSoapIn request message

3.1.4.4.1.1 SearchSoapIn

This is the request message for getting information about slides that contain the specified search string in the slide library.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/Search
```

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

3.1.4.4.1.2 SearchSoapOut

This is the response message to a **SearchSoapIn** request message.

The SOAP action value of the message is defined as:

```
http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/Search
```

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

3.1.4.4.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element	Description
Search	Specifies the input parameters for a Search operation.
SearchResponse	Specifies the output of a Search operation.

3.1.4.4.2.1 Search

The **Search** element specifies the input parameters for a **Search** operation.

```
<s:element name="Search">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="strListUrl" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="strSearch" type="s:string" />
      <s:element minOccurs="0" maxOccurs="1" name="inputLcid"
        type="s:unsignedInt" />
    </s:sequence>
  </s:complexType>
</s:element>
```

strListUrl: This element, as specified in section [2.2.3.1](#), MUST be present and MUST be the URL of a folder of a slide library.

strSearch: The string to search for in the slide.

inputLcid: The **language code identifier (LCID)** of **strSearch**. The **inputLcid** MUST be present in a **SearchSoapIn** message and MUST be a valid LCID.

3.1.4.4.2.2 SearchResponse

The **SearchResponse** element specifies the output for a **Search** operation.

```
<s:element name="SearchResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="SearchResult">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="results"
              type="tns:CT_Result" />
          </s:sequence>
        </s:complexType>
      </s:element>
    </s:sequence>
  </s:complexType>
</s:element>
```

SearchResult: This element specifies the result of the **Search** operation.

SearchResult.results: This element specifies the result of the **Search** operation.

If the search operation returns a fault, the server MUST return a SOAP fault with the error code set to the following value:

0x00000008: The search operation cannot be finished successfully.

Otherwise, the server MUST send a **SearchSoapOut** message.

If a slide contains **strSearch**, the **SearchSoapOut** message MUST include a **results** element with a **Slide** element for each matching slide.

The **results** element of the **SearchSoapOut** message MUST NOT contain more than 50 **Slide** elements.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples demonstrate the interactions between the protocol client and the protocol server. For the sake of succinctness, only the SOAP body is listed.

In this example, the protocol client searches for slides that contain content about the word "Zune". The **SearchSoapIn** message is sent to the protocol server:

```
<Search xmlns="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/">
  <strListUrl>http://sharepoint/sites/ddk/First Slide Lib/</strListUrl>
  <strSearch>Zune</strSearch>
  <inputLcid>1033</inputLcid>
</Search>
```

In this example, the protocol server searches the slide library "http://sharepoint/sites/ddk/First Slide Lib/" for slides that contain the English (LCID 1033) word "Zune" and returns the result that describes the two slides found:

```
<SearchResponse>
<SearchResult>
  <results xmlns="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/">
    <Title>First Slide Lib</Title>
    <Url>http://sharepoint/sites/ddk/First%20Slide%20Lib</Url>
    <ForceCheckout>False</ForceCheckout>
    <Slide FileName="Zune Launch Overview 9-22_272.pptx" ID="56" UniqueId="ecc2f5ff-e0a8-445f-b254-d1be6a39cc8e" Presentation="Zune Launch Overview 9-22" EncodedAbsUrl="http://sharepoint/sites/ddk/First%20Slide%20Lib/Zune%20Launch%20Overview%209-22_272.pptx" EncodedAbsThumbnailUrl="http://sharepoint/sites/ddk/First%20Slide%20Lib/_t/Zune%20Launch%20Overview%209-22_272_pptx.jpg" Editor="GPU Test Lab" Description="Seattle: Pike Place Market" Modified="2006-12-06T19:10:50Z" />
    <Slide FileName="Zune Launch Overview 9-22_220.pptx" ID="75" UniqueId="08e3bf1e-880c-4e09-be8b-a93452e5059d" Presentation="Zune Launch Overview 9-22" EncodedAbsUrl="http://sharepoint/sites/ddk/First%20Slide%20Lib/Zune%20Launch%20Overview%209-22_220.pptx" EncodedAbsThumbnailUrl="http://sharepoint/sites/ddk/First%20Slide%20Lib/_t/Zune%20Launch%20Overview%209-22_220_pptx.jpg" Editor="GPU Test Lab" Description="Flash Performance Promotion - Sub Market" Modified="2006-12-06T19:11:04Z" />
  </results>
</SearchResult>
</SearchResponse>
```

The protocol client can download the content of these two slides using URLs included as the **EncodedAbsUrl** attribute in each **Slide** element, or the thumbnail images of these two slides using URLs included as the **EncodedAbsThumbnailUrl** attribute.

5 Security

5.1 Security Considerations for Implementers

Security assumptions of this protocol are documented in [\[MS-AUTHWS\]](#), section 5. There are no additional security considerations for implementers.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL are provided in this appendix:

```
<?xml version="1.0" encoding="utf-8" ?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/"
xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/">
      <s:import namespace="http://microsoft.com/wsdl/types/" />
      <s:import namespace="http://www.w3.org/2001/XMLSchema" />
      <s:complexType name="CT_SlideResult">
        <s:attribute use="optional" name="FileName" type="s:string" />
        <s:attribute use="optional" name="Description" type="s:string" />
        <s:attribute use="optional" name="Editor" type="s:string" />
        <s:attribute use="optional" name="EncodedAbsThumbnailUrl"
          type="s:string" />
        <s:attribute use="required" name="Modified" type="s:string" />
        <s:attribute use="required" name="ID" type="s:unsignedInt" />
        <s:attribute use="required" name="EncodedAbsUrl" type="s:string" />
        <s:attribute use="optional" name="Presentation" type="s:string" />
        <s:attribute use="optional" name="UniqueId" type="s:string" />
      </s:complexType>
      <s:simpleType name="ST_TrueFalse">
        <s:restriction base="s:string">
          <s:enumeration value="true"/>
          <s:enumeration value="false"/>
          <s:enumeration value="True"/>
          <s:enumeration value="False"/>
        </s:restriction>
      </s:simpleType>
      <s:complexType name="CT_Result">
        <s:sequence>
          <s:element minOccurs="1" maxOccurs="1" name="Title" type="s:string" />
          <s:element minOccurs="1" maxOccurs="1" name="Url" type="s:string" />
          <s:element minOccurs="0" maxOccurs="1" name="ForceCheckout"
            type="tns:ST_TrueFalse" />
          <s:element minOccurs="0" maxOccurs="unbounded" name="Slide"
            type="tns:CT_SlideResult" />
        </s:sequence>
      </s:complexType>
      <s:element name="GetSlidesXML">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="strListUrl"
              type="s:string" />
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="GetSlidesXMLResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="GetSlidesXMLResult">
              <s:complexType>

```

```

        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1" name="results"
                type="tns:CT_Result" />
        </s:sequence>
    </s:complexType>
</s:element>
</s:sequence>
</s:complexType>
</s:element>
<s:element name="CheckCollisions">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="strListUrl"
                type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="slideNames"
                type="tns:ArrayOfString" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:complexType name="ArrayOfString">
    <s:sequence>
        <s:element minOccurs="0" maxOccurs="unbounded" name="string"
            nillable="true" type="s:string" />
    </s:sequence>
</s:complexType>
<s:element name="CheckCollisionsResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="CheckCollisionsResult">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="1" maxOccurs="1" name="results"
                            type="tns:CT_Result" />
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetSlideInfoByIds">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="strListUrl"
                type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="slideids"
                type="tns:ArrayOfString" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetSlideInfoByIdsResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="GetSlideInfoByIdsResult">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="1" maxOccurs="1" name="results"
                            type="tns:CT_Result" />
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>

```

```

        </s:element>
    </s:sequence>
</s:complexType>
</s:element>
<s:element name="Search">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="strListUrl"
                type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="strSearch"
                type="s:string" />
            <s:element minOccurs="0" maxOccurs="1" name="inputLcid"
                type="s:unsignedInt" />
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="SearchResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0" maxOccurs="1" name="SearchResult">
                <s:complexType>
                    <s:sequence>
                        <s:element minOccurs="1" maxOccurs="1" name="results"
                            type="tns:CT_Result" />
                    </s:sequence>
                </s:complexType>
            </s:element>
        </s:sequence>
    </s:complexType>
</s:element>
</s:schema>
<s:schema elementFormDefault="qualified"
    targetNamespace="http://microsoft.com/wsdl/types/">
    <s:simpleType name="guid">
        <s:restriction base="s:string">
            <s:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}" />
        </s:restriction>
    </s:simpleType>
</s:schema>
</wsdl:types>
<wsdl:message name="GetSlidesXMLSoapIn">
    <wsdl:part name="parameters" element="tns:GetSlidesXML" />
</wsdl:message>
<wsdl:message name="GetSlidesXMLSoapOut">
    <wsdl:part name="parameters" element="tns:GetSlidesXMLResponse" />
</wsdl:message>
<wsdl:message name="CheckCollisionsSoapIn">
    <wsdl:part name="parameters" element="tns:CheckCollisions" />
</wsdl:message>
<wsdl:message name="CheckCollisionsSoapOut">
    <wsdl:part name="parameters" element="tns:CheckCollisionsResponse" />
</wsdl:message>
<wsdl:message name="GetSlideInfoByIdsSoapIn">
    <wsdl:part name="parameters" element="tns:GetSlideInfoByIds" />
</wsdl:message>
<wsdl:message name="GetSlideInfoByIdsSoapOut">
    <wsdl:part name="parameters" element="tns:GetSlideInfoByIdsResponse" />
</wsdl:message>

```

```

<wsdl:message name="SearchSoapIn">
  <wsdl:part name="parameters" element="tns:Search" />
</wsdl:message>
<wsdl:message name="SearchSoapOut">
  <wsdl:part name="parameters" element="tns:SearchResponse" />
</wsdl:message>
<wsdl:portType name="SlideLibrarySoap">
  <wsdl:operation name="GetSlidesXML">
    <wsdl:input message="tns:GetSlidesXMLSoapIn" />
    <wsdl:output message="tns:GetSlidesXMLSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="CheckCollisions">
    <wsdl:input message="tns:CheckCollisionsSoapIn" />
    <wsdl:output message="tns:CheckCollisionsSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="GetSlideInfoByIds">
    <wsdl:input message="tns:GetSlideInfoByIdsSoapIn" />
    <wsdl:output message="tns:GetSlideInfoByIdsSoapOut" />
  </wsdl:operation>
  <wsdl:operation name="Search">
    <wsdl:input message="tns:SearchSoapIn" />
    <wsdl:output message="tns:SearchSoapOut" />
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="SlideLibrarySoap" type="tns:SlideLibrarySoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
  <wsdl:operation name="GetSlidesXML">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlidesXML"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="CheckCollisions">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/CheckCollisions"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetSlideInfoByIds">
    <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlideInfoByIds"
style="document" />
    <wsdl:input>
      <soap12:body use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap12:body use="literal" />
    </wsdl:output>
  </wsdl:operation>

```

```

    <wsdl:operation name="Search">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/Search"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="SlideLibrarySoap12" type="tns:SlideLibrarySoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http" style="document" />
    <wsdl:operation name="GetSlidesXML">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlidesXML"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CheckCollisions">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/CheckCollisions"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetSlideInfoByIds">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/GetSlideInfoByIds"
style="document" />
      <wsdl:input>
        <soap12:body use="literal" />
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal" />
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="Search">
      <soap12:operation
soapAction="http://schemas.microsoft.com/sharepoint/soap/SlideLibrary/Search"
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 PowerPoint 2007
- Microsoft PowerPoint 2010
- Microsoft Office SharePoint Server 2007
- Microsoft SharePoint Server 2010
- Microsoft PowerPoint 2013
- Microsoft SharePoint Server 2013

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

A

Abstract data model
[server](#) 13
[Applicability](#) 8
[ArrayOfStringcomplex type](#) 10
[Attribute groups](#) 12
[Attributes](#) 12

C

[Capability negotiation](#) 8
[Change tracking](#) 33
[Complex types](#) 10
 [ArrayOfString](#) 10
 [CT_Result](#) 10
 [CT_SlideResult](#) 11
[CT_Resultcomplex type](#) 10
[CT_SlideResultcomplex type](#) 11

D

Data model - abstract
[server](#) 13

E

Elements
[strListUri](#) 10
Events
[local - server](#) 23
[timer - server](#) 23
Examples
[overview](#) 24

F

[Fields - vendor-extensible](#) 8
[Full WSDL](#) 26

G

[Glossary](#) 6
[Groups](#) 12

I

[Implementer - security considerations](#) 25
[Index of security parameters](#) 25
[Informative references](#) 7
Initialization
[server](#) 14
[Introduction](#) 6

L

Local events
[server](#) 23

M

Message processing
[server](#) 14
Messages
[ArrayOfStringcomplex type](#) 10
[attribute groups](#) 12
[attributes](#) 12
[complex types](#) 10
[CT_Resultcomplex type](#) 10
[CT_SlideResultcomplex type](#) 11
[elements](#) 10
[enumerated](#) 9
[groups](#) 12
[namespaces](#) 9
[simple types](#) 12
[ST_TrueFalsesimple type](#) 12
[strListUrlelement](#) 10
[syntax](#) 9
[transport](#) 9

N

[Namespaces](#) 9
[Normative references](#) 6

O

Operations
[CheckCollisions](#) 14
[GetSlideInfoByIds](#) 19
[GetSlidesXML](#) 17
[Search](#) 21
[Overview \(synopsis\)](#) 7

P

[Parameters - security index](#) 25
[Preconditions](#) 8
[Prerequisites](#) 8
[Product behavior](#) 32
Protocol Details
[overview](#) 13

R

[References](#) 6
 [informative](#) 7
 [normative](#) 6
[Relationship to other protocols](#) 8

S

Security
[implementer considerations](#) 25
[parameter index](#) 25
Sequencing rules
[server](#) 14

Server

- [abstract data model](#) 13
 - [CheckCollisions operation](#) 14
 - [GetSlideInfoByIds operation](#) 19
 - [GetSlidesXML operation](#) 17
 - [initialization](#) 14
 - [local events](#) 23
 - [message processing](#) 14
 - [Search operation](#) 21
 - [sequencing rules](#) 14
 - [slidelibrarysoap details](#) 13
 - [timer events](#) 23
 - [timers](#) 14
 - [Simple types](#) 12
 - [ST_TrueFalse](#) 12
 - [SlideLibrarySoap details](#) 13
 - [ST_TrueFalsesimple type](#) 12
 - [Standards assignments](#) 8
 - [strListUrlelement](#) 10
- Syntax
- [messages - overview](#) 9

T

Timer events

- [server](#) 23

Timers

- [server](#) 14
- [Tracking changes](#) 33
- [Transport](#) 9

Types

- [complex](#) 10
- [simple](#) 12

V

- [Vendor-extensible fields](#) 8
- [Versioning](#) 8

W

- [WSDL](#) 26