[MS-PWEDPS]:

PowerPoint Web Editor Data Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
7/13/2009	0.1	Major	Initial Availability
8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
2/19/2010	1.0	Major	Updated and revised the technical content
3/31/2010	1.01	Editorial	Revised and edited the technical content
4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
6/29/2010	1.04	Editorial	Changed language and formatting in the technical content.
7/23/2010	1.05	Minor	Clarified the meaning of the technical content.
9/27/2010	1.05	None	No changes to the meaning, language, or formatting of the technical content.
11/15/2010	1.06	Minor	Clarified the meaning of the technical content.
12/17/2010	1.06	None	No changes to the meaning, language, or formatting of the technical content.
3/18/2011	1.06	None	No changes to the meaning, language, or formatting of the technical content.
6/10/2011	2.0	Major	Significantly changed the technical content.
1/20/2012	3.0	Major	Significantly changed the technical content.
4/11/2012	3.0	None	No changes to the meaning, language, or formatting of the technical content.
7/16/2012	3.0	None	No changes to the meaning, language, or formatting of the technical content.
10/8/2012	4.0	Major	Significantly changed the technical content.
2/11/2013	5.0	Major	Significantly changed the technical content.
7/30/2013	6.0	Major	Significantly changed the technical content.
11/18/2013	6.0	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	6.0	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	6.1	Minor	Clarified the meaning of the technical content.
7/31/2014	6.1	None	No changes to the meaning, language, or formatting of the technical content.
10/30/2014	6.1	None	No changes to the meaning, language, or formatting of the technical content.
3/16/2015	7.0	Major	Significantly changed the technical content.

Date	Revision History	Revision Class	Comments
6/23/2016	7.0	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	7.0	None	No changes to the meaning, language, or formatting of the technical content.
6/20/2017	7.1	Minor	Clarified the meaning of the technical content.

Table of Contents

1 Introduction

The PowerPoint Web Editor Data Protocol enables a protocol client to obtain information about and modify slide collection content on a protocol server.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

absolute URL: The full Internet address of a page or other World Wide Web resource. The absolute URL includes a protocol, such as "http," a network location, and an optional path and file name — for example, http://www.treyresearch.net/.

ActiveX control: A reusable software control, such as a check box or button, that uses ActiveX technology and provides options to users or runs macros or scripts that automate a task. See also ActiveX object.

build identifier: An integer that identifies a build.

canary: A token that stores data about an application or user session. Typically it is used by web services to help authenticate an application or user.

comment: An annotation that is associated with a cell, text, or other object to provide context-specific information or reviewer feedback.

cookie: A small data file that is stored on a user's computer and carries state information between participating protocol servers and protocol clients.

cross-site request forgery: A type of security vulnerability that enables malicious users to send unauthorized commands to a website or application by assuming the identity of an authorized user and running script under that assumed identity. Also referred to as one-click attack and session riding.

cross-site scripting: A type of security vulnerability that enables malicious users to insert client-side script into webpages and to run that script when those pages are viewed by other users. The script might then gain access to user-specific data, such as cookies, cached objects, and application settings. Also referred to as XSS.

Hypertext Markup Language (HTML): An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [HTML].

ink: A process of entering text in handwritten form. Instead of converting handwritten text to typed text, ink is converted to an object and displayed exactly as it was written.

language code identifier (LCID): A 32-bit number that identifies the user interface human language dialect or variation that is supported by an application or a client computer.

main master slide: A slide that defines the formatting and content that can be used by presentation slides. If a slide uses formatting and content from a main master slide, it is referred to as following a main master slide.

OLE object: An object that supports the Object Linking and Embedding (OLE) protocol.

placeholder: A character or symbol that is used in place of an actual value, text, or object. The actual value that the placeholder represents is unknown or unavailable at the current time, or is not displayed for security reasons.

presentation: A collection of slides that are intended to be viewed by an audience.

presentation slide: A slide that contains the content that can be displayed during a slide show. A presentation slide can derive formatting and content from a main master slide or a title master slide.

right-to-left: A reading and display order that is optimized for right-to-left languages.

shape: A collection of qualifiers, such as names, and quantifiers, such as coordinates, that is used to represent a geometric object. A shape can be contained in a document, file structure, run-time structure, or other medium.

slide: A frame that contains text, shapes, pictures, or other content. A slide is a digital equivalent to a traditional film slide.

slide layout: An organizational scheme, such as Title Only or Comparison, for content on a presentation slide.

SmartArt: A type of graphical element, such as a diagram or image, that automatically positions and combines images with text to produce a well-formatted and well-designed graphic.

SOAP action: The HTTP request header field used to indicate the intent of the SOAP request, using a URI value. See [SOAP1.1] section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a **SOAP message** to its recipient. See [SOAP1.2-1/2007] section 5.3 for more information.

SOAP fault: A container for error and status information within a **SOAP message**. See [SOAP1.2-1/2007] section 5.4 for more information.

SOAP message: An XML document consisting of a mandatory SOAP envelope, an optional SOAP header, and a mandatory **SOAP body**. See [SOAP1.2-1/2007] section 5 for more information.

theme: A set of unified design elements, such as colors, fonts, graphics, and styles, that define the appearance of a website, document, or data visualization.

title master slide: A slide that defines the formatting and content that can be used by presentation slides that have a title slide layout. If a slide uses formatting and content from a title master slide, it is referred to as following a title master slide.

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [RFC1738].

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

website: A group of related webpages that is hosted by a server on the World Wide Web or an intranet. Each website has its own entry points, metadata, administration settings, and workflows. Also referred to as site.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [XMLNS-2ED].

XML namespace prefix: An abbreviated form of an **XML namespace**, as described in [XML].

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

z-order: The rendering order of an object on a z axis.

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

1.2   References

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

1.2.1   Normative References

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

[ISO/IEC29500-1:2011] ISO/IEC, "Information Technology -- Document description and processing languages -- Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference", ISO/IEC 29500-1:2011, 2011, http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=59575

[MS-LCID] Microsoft Corporation, "Windows Language Code Identifier (LCID) Reference".

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

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

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, 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., 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., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/

1.2.2 Informative References

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation 24 December 1999, http://www.w3.org/TR/html4/

[RFC2822] Resnick, P., Ed., "Internet Message Format", RFC 2822, April 2001, http://www.ietf.org/rfc/rfc2822.txt

1.3 Protocol Overview (Synopsis)

This protocol enables a protocol client to send a request to modify **presentation** content to the protocol server and then receive from the protocol server information about the result of the modification.

To facilitate this, the protocol allows the protocol client to send a request to the protocol server and then receive from the protocol server information about the existence of **presentation slides**, **main master slides**, and **slide layouts**. The protocol client can also send a request to the protocol server and then receive from the protocol server images of **slide** content.

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:
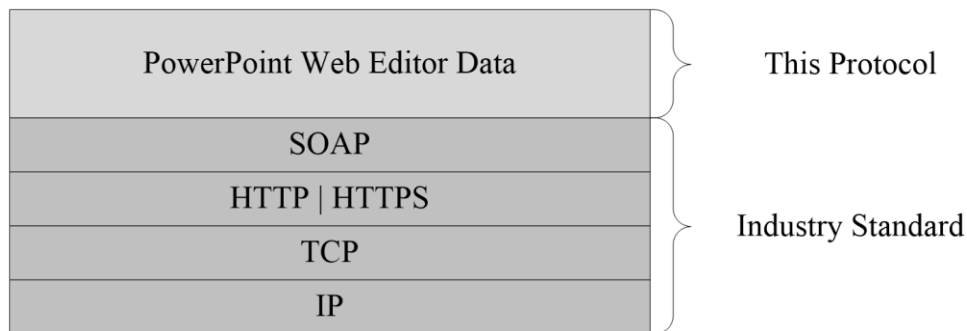
Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a set of **Web sites** that is identified by a set of **URLs** that are known by protocol clients.

The protocol server endpoint to which the client sends requests to modify presentation content is formed by appending "/p/ppt/edit.svc" to the URL of the Web site, for example http://www.contoso.com/p/ppt/edit.svc.

The protocol server endpoint to which the client sends requests to modify image content is formed by appending "/p/pptInsertPicture.ashx" to the URL of the Web site, for example http://www.contoso.com/p/pptInsertPicture.ashx.

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

1.6   Applicability Statement

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

1.7   Versioning and Capability Negotiation

This document covers versioning issues in the following area:

- **Supported Transports:** This protocol uses multiple transports with SOAP as described 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 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**.

2.1 Transport

Protocol servers MUST support SOAP over HTTP. Protocol servers SHOULD additionally support SOAP over HTTPS for securing communication with clients. Protocol servers SHOULD support JSON [RFC4627] over HTTP and HTTPS.<1>

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 in either [SOAP1.1] section 4.4 or in [SOAP1.2/1] section 5.4.

2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses **XML schema** as defined in [XMLSCHEMA1] and [XMLSCHEMA2], and **WSDL** as defined in [WSDL].

2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
q3	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared	
tns1	http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface	
tns2	http://schemas.datacontract.org/2004/07/p	
tns3	http://schemas.microsoft.com/2003/10/Serialization/	
tns4	http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/	
tns5	http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]

Pref ix	Namespace URI	Reference
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

2.2.3 Elements

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

2.2.4 Complex Types

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

Complex type	Description
ArrayOfComment	The **ArrayOfComment** complex type<2> specifies a list of **Comment** elements.
ArrayOfContentMasterFe	The **ArrayOfContentMasterFe** complex type specifies a list of **ContentMasterFe** elements.
ArrayOfEditAnimInfo	The **ArrayOfEditAnimInfo** complex type<3> specifies a list of **EditAnimInfo** elements.
ArrayOfEditorInfo	The **ArrayOfEditorInfo** complex type<4> specifies a list of **EditorInfo** elements.
ArrayOfEditShape	The **ArrayOfEditShape** complex type specifies a list of **EditShape** elements.
ArrayOfEditSlide	The **ArrayOfEditSlide** complex type specifies a list of **EditSlide** elements.
ArrayOfEditSlideChanges	The **ArrayOfEditSlideChanges** complex type specifies a list of **EditSlideChanges** elements.
ArrayOfEditSlideInfoFe	The **ArrayOfEditSlideInfoFe** complex type specifies a list of **EditSlideInfoFe** elements.
ArrayOfMainMasterFe	The **ArrayOfMainMasterFe** complex type specifies a list of **MainMasterFe** elements.
ArrayOfMainMasterResourcesFe	The **ArrayOfMainMasterResourcesFe** specifies a list of **MainMasterResourcesFe** elements.
ArrayOfSlideUpdateInfo	The **ArrayOfSlideUpdateInfo** specifies a list of **SlideUpdateInfo** elements.
ArrayOfStyleGalleryItem	The **ArrayOfStyleGalleryItem** complex type<5> specifies a list of **StyleGalleryItem** elements.

Complex type	Description
ArrayOfunsignedInt	The **ArrayOfunsignedInt** complex type specifies a list of **unsignedInt** elements ([XMLSCHEMA2] section 3.3.22).
ArrayOfViewElement	The **ArrayOfViewElement** complex type specifies a list of **ViewElement** elements.
BoundingRegion	The **BoundingRegion** complex type<6> specifies the rotated bounds of a **shape**.
ClippingInfo	The **ClippingInfo** complex type<7> specifies a region within an image.
CoauthState	The **CoauthState** complex type<8> specifies the co-authoring state of the **presentation**.
CoauthUpdate	The **CoauthUpdate** complex type<9> specifies the co-authoring state of the presentation.
Comment	The **Comment** complex type<10> specifies a single **comment**, and its replies.
ContentMasterFe	The **ContentMasterFe** complex type specifies a **slide layout**.
ContentUpdateInfo	Reserved. MUST be ignored.
EditAnimInfo	The **EditAnimInfo** complex type<11> specifies a shape animation.
EditCommandResponse	The **EditCommandResponse** complex type specifies the response of a modification to a presentation.
EditorInfo	The **EditorInfo** complex type<12> specifies an editor of the presentation.
EditPresentationChanges	The **EditPresentationChanges** complex type specifies the content of the presentation that is modified as a result of a request to the protocol server.
EditPresentationInfo	The **EditPresentationInfo** complex type specifies information about the content of a specified presentation.
EditPresentationResources	Reserved. MUST be ignored.
EditShape	The **EditShape** complex type specifies a shape.
EditSlide	The **EditSlide** complex type specifies a **presentation slide**.
EditSlideChanges	The **EditSlideChanges** complex type specifies the content of the presentation slide. The content of this element is modified as a result of a request to the protocol server.
EditSlideInfoFe	The **EditSlideInfoFe** complex type specifies information about a presentation slide.
EditTransitionInfo	The **EditTransitionInfo** complex type<13> specifies a slide transition.
FontSizeMapping	Reserved; this element MUST be ignored.
Html	The **Html** complex type specifies **HTML** content.
MainMasterFe	The **MainMasterFe** complex type specifies a **main master slide**.
MainMasterResourcesFe	Reserved. MUST be ignored.
Notes	The **Notes** complex type specifies the notes of a presentation slide.

Complex type	Description
Point	The **Point** complex type specifies a two dimensional point.
PptViewingService.PrintResult	The **PptViewingService.PrintResult** complex type<14> specifies the result of a print operation.
PresetSchemeColorMapping	The **PresetSchemeColorMapping** complex type<15> specifies a set of colors in the **theme**.
Rectangle	The **Rectangle** complex type specifies a rectangle.
ServiceError	The **ServiceError** complex type specifies error information. This information is returned by the protocol server to a protocol client.
ServiceResult	The **ServiceResult** complex type specifies the result of a protocol method. The protocol server returns this type to the protocol client containing either a successful **Result** element or an **Error** element.
SlideID	A complex type that SHOULD <16>identify a presentation slide.
SlideIdList	The **SlideIdList** complex type specifies a list of identifiers for presentation slides.
SlideUpdateInfo	Reserved. MUST be ignored.
SmartArtInfo	The **SmartArtInfo** complex type specifies information about a **SmartArt** diagram.
StyleGalleryItem	The **StyleGalleryItem** complex type<17> specifies a shape style.
Theme	The **Theme** complex type specifies information about a theme.
ThemeColor	The **ThemeColor** complex type specifies a color using the red, green, blue RGB color model. Red, green, and blue are each expressed as an unsigned byte from 0 for no intensity to 255 for full intensity.
ViewElement	The **ViewElement** complex type specifies a visual representation of presentation slide content.

2.2.4.1 ArrayOfComment

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfComment** complex type<18> specifies a list of **Comment** elements.

```
<xs:complexType name="ArrayOfComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Comment" nillable="true"
type="tns2:Comment"/>
  </xs:sequence>
</xs:complexType>
```

Comment: Each element MUST specify a **Comment** complex type (section 2.2.4.19) instance.

2.2.4.2 ArrayOfContentMasterFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfContentMasterFe** complex type specifies a list of **ContentMasterFe** elements.

```
<xs:complexType name="ArrayOfContentMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ContentMasterFe" nillable="true"
type="tns2:ContentMasterFe"/>
  </xs:sequence>
</xs:complexType>
```

ContentMasterFe: Each element MUST specify a **ContentMasterFe** complex type (section 2.2.4.20) instance.

2.2.4.3 ArrayOfEditAnimInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditAnimInfo** complex type<19> specifies a list of **EditAnimInfo** elements.

```
<xs:complexType name="ArrayOfEditAnimInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditAnimInfo" nillable="true"
type="tns2:EditAnimInfo"/>
  </xs:sequence>
</xs:complexType>
```

EditAnimInfo: Each element MUST specify an **EditAnimInfo** complex type (section 2.2.4.22) instance.

2.2.4.4 ArrayOfEditorInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditorInfo** complex type<20> specifies a list of **EditorInfo** elements.

```
<xs:complexType name="ArrayOfEditorInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditorInfo" nillable="true"
type="tns2:EditorInfo"/>
  </xs:sequence>
</xs:complexType>
```

EditorInfo: Each element MUST specify an **EditorInfo** complex type (section 2.2.4.24) instance.

2.2.4.5 ArrayOfEditShape

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditShape** complex type specifies a list of **EditShape** elements.

```
<xs:complexType name="ArrayOfEditShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditShape" nillable="true"
type="tns2:EditShape"/>
```

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

EditShape: Each element MUST specify an **EditShape** complex type (section 2.2.4.28) instance.

2.2.4.6 ArrayOfEditSlide

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditSlide** complex type specifies a list of **EditSlide** elements.

```
<xs:complexType name="ArrayOfEditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true"
type="tns2:EditSlide"/>
  </xs:sequence>
</xs:complexType>
```

EditSlide: Each element MUST specify an **EditSlide** complex type (section 2.2.4.29) instance.

2.2.4.7 ArrayOfEditSlideChanges

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditSlideChanges** complex type specifies a list of **EditSlideChanges** elements.

```
<xs:complexType name="ArrayOfEditSlideChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true"
type="tns2:EditSlideChanges"/>
  </xs:sequence>
</xs:complexType>
```

EditSlideChanges: Each element MUST specify an **EditSlideChanges** complex type (section 2.2.4.30) instance.

2.2.4.8 ArrayOfEditSlideInfoFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfEditSlideInfoFe** complex type specifies a list of **EditSlideInfoFe** elements.

```
<xs:complexType name="ArrayOfEditSlideInfoFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideInfoFe" nillable="true"
type="tns2:EditSlideInfoFe"/>
  </xs:sequence>
</xs:complexType>
```

EditSlideInfoFe: Each element MUST specify an **EditSlideInfoFe** complex type (section 2.2.4.31) instance.

2.2.4.9 ArrayOfMainMasterFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfMainMasterFe** complex type specifies a list of **MainMasterFe** elements.

```
<xs:complexType name="ArrayOfMainMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterFe" nillable="true"
type="tns2:MainMasterFe"/>
  </xs:sequence>
</xs:complexType>
```

MainMasterFe: Each element MUST specify a **MainMasterFe** complex type (section 2.2.4.35) instance.

2.2.4.10   ArrayOfMainMasterResourcesFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfMainMasterResourcesFe** specifies a list of **MainMasterResourcesFe** elements.

```
<xs:complexType name="ArrayOfMainMasterResourcesFe"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterResourcesFe"
nillable="true" type="tns2:MainMasterResourcesFe"/>
  </xs:sequence>
</xs:complexType>
```

MainMasterResourcesFe: Each element MUST specify a **MainMasterResourcesFe** complex type (section 2.2.4.36) instance.

2.2.4.11   ArrayOfSlideUpdateInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfSlideUpdateInfo** specifies a list of **SlideUpdateInfo** elements.

```
<xs:complexType name="ArrayOfSlideUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SlideUpdateInfo" nillable="true"
type="tns2:SlideUpdateInfo"/>
  </xs:sequence>
</xs:complexType>
```

SlideUpdateInfo: Each element MUST specify a **SlideUpdateInfo** complex type (section 2.2.4.46) instance.

2.2.4.12   ArrayOfStyleGalleryItem

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfStyleGalleryItem** complex type<21> specifies a list of **StyleGalleryItem** elements.

```
<xs:complexType name="ArrayOfStyleGalleryItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="StyleGalleryItem" nillable="true"
type="tns2:StyleGalleryItem"/>
  </xs:sequence>
```

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

StyleGalleryItem: Each element MUST specify a **StyleGalleryItem** complex type (section 2.2.4.48) instance.

2.2.4.13   ArrayOfunsignedInt

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

The **ArrayOfunsignedInt** complex type specifies a list of **unsignedInt** elements ([XMLSCHEMA2] section 3.3.22).

```
    <xs:complexType name="ArrayOfunsignedInt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
```

unsignedInt: Each element MUST specify an **unsignedInt** ([XMLSCHEMA2] section 3.3.22).

2.2.4.14   ArrayOfViewElement

Namespace: http://schemas.datacontract.org/2004/07/p

The **ArrayOfViewElement** complex type specifies a list of **ViewElement** elements.

```
    <xs:complexType name="ArrayOfViewElement" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ViewElement" nillable="true"
type="tns2:ViewElement"/>
      </xs:sequence>
    </xs:complexType>
```

ViewElement: Each element MUST specify a **ViewElement** complex type (section 2.2.4.51) instance.

2.2.4.15   BoundingRegion

Namespace: http://schemas.datacontract.org/2004/07/p

The **BoundingRegion** complex type<22> specifies the rotated bounds of a **shape**.

```
    <xs:complexType name="BoundingRegion" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:sequence>
        <xs:element minOccurs="0" name="BottomLeft" nillable="true" type="tns2:Point"/>
        <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns2:Point"/>
        <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns2:Point"/>
        <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns2:Point"/>
      </xs:sequence>
    </xs:complexType>
```

BottomLeft: A **Point** complex element (section 2.2.4.38) that specifies the bottom left point of the shape. This element MUST be present.

BottomRight: A **Point** element that specifies the bottom right point of the shape. This element MUST be present.

TopLeft: A **Point** element that specifies the top left point of the shape. This element MUST be present.

TopRight: A **Point** element that specifies the top right point of the shape. This element MUST be present.

2.2.4.16 ClippingInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **ClippingInfo** complex type<23> specifies a region within an image.

```
<xs:complexType name="ClippingInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Bounds" nillable="true" type="tns2:Rectangle"/>
    <xs:element minOccurs="0" name="TotalHeight" type="xs:int"/>
    <xs:element minOccurs="0" name="TotalWidth" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Bounds: A **Rectangle** complex element (section 2.2.4.41) that specifies the bounds of the region. This element MUST be present.

TotalHeight: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the total height of the image.

TotalWidth: An **int** that specifies the total width of the image.

2.2.4.17 CoauthState

Namespace: http://schemas.datacontract.org/2004/07/p

The **CoauthState** complex type<24> specifies the co-authoring state of the **presentation**.

```
<xs:complexType name="CoauthState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="cs" type="xs:int"/>
    <xs:element minOccurs="0" name="et" nillable="true" type="tns2:ArrayOfEditorInfo"/>
    <xs:element minOccurs="0" name="lsave" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="lsmce" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="lsum" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="meid" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="sui" nillable="true" type="tns2:ContentUpdateInfo"/>
  </xs:sequence>
</xs:complexType>
```

cs: Reserved. MUST be ignored.

et: An **ArrayOfEditorInfo** complex element (section 2.2.4.4) that specifies the list of editors that are currently co-authoring the presentation.

lsave: Reserved. MUST be ignored.

lsmce: Reserved. MUST be ignored.

lsum: Reserved. MUST be ignored.

meid: Reserved. MUST be ignored.

sui: Reserved. MUST be ignored.

2.2.4.18   CoauthUpdate

Namespace: http://schemas.datacontract.org/2004/07/p

The **CoauthUpdate** complex type<25> specifies the co-authoring state of the **presentation**.

```
<xs:complexType name="CoauthUpdate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="State" nillable="true" type="tns2:CoauthState"/>
    <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

State: A **CoauthState** complex element (section 2.2.4.17) that specifies the co-authoring state of the presentation.

Token: Reserved. Must be ignored.

2.2.4.19   Comment

Namespace: http://schemas.datacontract.org/2004/07/p

The **Comment** complex type<26> specifies a single **comment**, and its replies.

```
<xs:complexType name="Comment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Children" nillable="true" type="tns2:ArrayOfComment"/>
    <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="authorName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="dt" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="idx" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="pos" nillable="true" type="tns2:Point"/>
    <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Children: An **ArrayOfComment** complex type (section 2.2.4.1) that contains the replies to this comment.

authorId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the author of the comment. This element MUST be present.

authorName: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the name of the author of the comment.

dt: A **dateTime** ([XMLSCHEMA2] section 3.2.7) that specifies the time in UTC in which the comment was created.

idx: An **unsignedInt** that specifies the identifier of the comment within its author's comments. This element MUST be present.

pos: A **Point** complex type (section 2.2.4.38) that specifies the position of the comment on the slide.

text: A **string** that specifies the contents of the comment.

2.2.4.20   ContentMasterFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **ContentMasterFe** complex type specifies a **slide layout**.

```xml
<xs:complexType name="ContentMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SlideLayoutType" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Id: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier for the slide layout. This element MUST be present.

Name: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the name of the slide layout.

SlideLayoutType: A **string** that specifies the layout type as specified by **ST_SlideLayoutType** [ISO/IEC29500-1:2011] section 19.7.15. This element MUST be present.

2.2.4.21 ContentUpdateInfo

Namespace: http://schemas.datacontract.org/2004/07/p

Reserved. MUST be ignored.

```xml
<xs:complexType name="ContentUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="lplu" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="redo" type="xs:boolean"/>
    <xs:element minOccurs="0" name="sui" nillable="true" type="tns2:ArrayOfSlideUpdateInfo"/>
    <xs:element minOccurs="0" name="undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

leid: Reserved. MUST be ignored.

lplu: Reserved. MUST be ignored.

redo: Reserved. MUST be ignored.

sui: Reserved. MUST be ignored.

undo: Reserved. MUST be ignored.

2.2.4.22 EditAnimInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditAnimInfo** complex type<27> specifies a **shape** animation.

```xml
<xs:complexType name="EditAnimInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
 minOccurs="0" name="BuildIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
    <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="EffectId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="HasExisting" type="xs:boolean"/>
    <xs:element minOccurs="0" name="HasTrigger" type="xs:boolean"/>
    <xs:element minOccurs="0" name="SequenceId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
```

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

BuildIds: An **ArrayOfunsignedInt** complex element (section 2.2.4.13) that specifies the list of **build identifiers**. This element MUST be present.

Direction: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of animation. This element MAY be present.

EffectId: An **unsignedInt** that specifies the effect type of animation. This element MUST be present.

HasExisting: Reserved. MUST be ignored.

HasTrigger: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the shape has one or more animations using a triggered sequence. This element MUST be present.

SequenceId: An **unsignedInt** that specifies the sequence type of animation. This element MUST be present.

ShapeId: An **unsignedInt** that specifies the identifier of the shape. This element MUST be present.

2.2.4.23   EditCommandResponse

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditCommandResponse** complex type specifies the response of a modification to a **presentation**.

```
<xs:complexType name="EditCommandResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="PresChanges" nillable="true"
type="tns2:EditPresentationChanges"/>
  </xs:sequence>
</xs:complexType>
```

PresChanges: An **EditPresentationChanges** complex type (section 2.2.4.25) that specifies the content of the presentation that is modified.

2.2.4.24   EditorInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditorInfo** complex type<28> specifies an editor of the **presentation**.

```
<xs:complexType name="EditorInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ID" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SIPAddress" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="TimeOut" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

EmailAddress: Reserved. MUST be ignored.

ID: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the editor.

Name: Reserved. MUST be ignored.

SIPAddress: Reserved. MUST be ignored.

TimeOut: Reserved. MUST be ignored.

UserName: Reserved. MUST be ignored.

2.2.4.25   EditPresentationChanges

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditPresentationChanges** complex type specifies the content of the **presentation** that is modified as a result of a request to the protocol server.

```
<xs:complexType name="EditPresentationChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="AddedSlideInfos" nillable="true"
type="tns2:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="AddedSlides" nillable="true"
type="tns2:ArrayOfEditSlide"/>
    <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
    <xs:element minOccurs="0" name="MainMasterIds" nillable="true" type="tns2:SlideIdList"/>
    <xs:element minOccurs="0" name="ModifiedSlides" nillable="true"
type="tns2:ArrayOfEditSlideChanges"/>
    <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns2:SlideIdList"/>
    <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

AddedSlideInfos: An **ArrayOfEditSlideInfoFe** complex element (section 2.2.4.8) that specifies information about **presentation slides** added to the presentation. This element MUST be present.

AddedSlides: An **ArrayOfEditSlide** complex element (section 2.2.4.5) that specifies presentation slides added to the presentation. This element MUST be present.

InvalidateAllThumbs: A **boolean** ([XMLSCHEMA2] section 3.2.2) that SHOULD<29> specify whether all thumbnails are invalid. This element MUST be present.

MainMasterIds: A **SlideIdList** complex element (section 2.2.4.45) that specifies **main master slides** that are referenced by presentation slides.

ModifiedSlides: An **ArrayOfEditSlideChanges** complex element (section 2.2.4.7) that specifies slide content that is modified. This element MUST be present.

Redo: A **boolean** that specifies whether a **Redo** operation (section 3.1.4.38) is possible. This element MUST be present.

SlideOrder: A **SlideIdList** complex element (section 2.2.4.45) that specifies the order of the presentation slides.

Undo: A **boolean** that specifies whether an **Undo** operation (section 3.1.4.65) is possible. This element MUST be present.

2.2.4.26   EditPresentationInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditPresentationInfo** complex type specifies information about the content of a specified **presentation**.

```
<xs:complexType name="EditPresentationInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="CompatProblems" type="xs:boolean"/>
    <xs:element minOccurs="0" name="EditSlideInfos" nillable="true"
type="tns2:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="MainMasters" nillable="true"
type="tns2:ArrayOfMainMasterFe"/>
    <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Rtl" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Size" nillable="true" type="tns2:Point"/>
    <xs:element minOccurs="0" name="Slide" nillable="true" type="tns2:EditSlide"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns2:SlideIdList"/>
    <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

CompatProblems: A **boolean** ([XMLSCHEMA2] section 3.2.2) that SHOULD<30> specify whether compatibility issues can occur if the presentation is edited. This element MUST be present.

EditSlideInfos: An **ArrayOfEditSlideInfoFe** complex element (section 2.2.4.8) that specifies information about **presentation slides**. This element MUST be present.

FirstSlideIndex: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the index of the first presentation slide. This element MUST be present.

MainMasters: An **ArrayOfMainMasterFe** complex element (section 2.2.4.9) that specify information about **main master slides**. This element MUST be present.

Redo: A **boolean** that specifies whether a **Redo** operation (section 3.1.4.38) is possible. This element MUST be present.

Rtl: A **boolean** that specifies whether the presentation content is **right-to-left**. This element MUST be present.

Size: A **Point** complex element (section 2.2.4.38) that specifies the dimensions of the presentation slides. This element MUST be present.

Slide: Reserved. MUST be ignored.

SlideOrder: A **SlideIdList** complex element (section 2.2.4.45) that specifies the order of the presentation slides. This element MUST be present.

Undo: A **boolean** that specifies whether an **Undo** operation (section 3.1.4.65) is possible. This element MUST be present.

2.2.4.27   EditPresentationResources

Namespace: http://schemas.datacontract.org/2004/07/p

Reserved. MUST be ignored.

```
<xs:complexType name="EditPresentationResources" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="MainMasterResources" nillable="true"
type="tns2:ArrayOfMainMasterResourcesFe"/>
  </xs:sequence>
```

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

MainMasterResources: Reserved. MUST be ignored.

2.2.4.28   EditShape

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditShape** complex type specifies a **shape**.

```
    <xs:complexType name="EditShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:sequence>
        <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns2:Rectangle"/>
        <xs:element minOccurs="0" name="EditHtml" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="FFlippedHorizontally" type="xs:boolean"/>
        <xs:element minOccurs="0" name="FFlippedVertically" type="xs:boolean"/>
        <xs:element minOccurs="0" name="FontName" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="FontSize" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="FontSizeMapping" nillable="true"
    type="tns2:FontSizeMapping"/>
        <xs:element minOccurs="0" name="HasEffectAndNoFill" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsActiveX" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsBold" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsChart" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsConnected" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsGroup" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsInk" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsItalic" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsLine" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsNonNativeVideo" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsOleObject" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsPicture" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsPlaceholder" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsSmartArt" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsStraightLine" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsTable" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsTextbox" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsUnderline" type="xs:boolean"/>
        <xs:element minOccurs="0" name="PlaceholderType" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="RotatedBoundingRegion" nillable="true"
    type="tns2:BoundingRegion"/>
        <xs:element minOccurs="0" name="Rotation" type="xs:int"/>
        <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ShapeViewElemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="SmartArtInfo" nillable="true" type="tns2:SmartArtInfo"/>
        <xs:element minOccurs="0" name="TextAlignmentType" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="TextBulletType" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="TextDirectionType" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="TextViewElemId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="X" type="xs:double"/>
        <xs:element minOccurs="0" name="Y" type="xs:double"/>
        <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
```

Alt: Reserved. MUST be ignored.

EditBounds: A **Rectangle** complex type (section 2.2.4.41) that specifies the bounds of the shape.
This element MUST be present.

EditHtml: A **string** ([XMLSCHEMA2] section 3.2 1) that specifies the text content of the shape as **HTML**. This element MUST be present.

FFlippedHorizontally: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the shape is currently flipped horizontally. This element MUST be present.

FFlippedVertically: A **boolean** that specifies whether the shape is currently flipped vertically. This element MUST be present.

FontName: A **string** ([XMLSCHEMA2] section 3.2 1) that specifies the font name of the text for the shape.

FontSize: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the font size of the text for the shape.

FontSizeMapping: Reserved. MUST be ignored.

HasEffectAndNoFill: Reserved. MUST be ignored.

IsActiveX: A **boolean** that specifies whether the shape is an **ActiveX control**. This element MUST be present.

IsBold: A **boolean** that specifies whether the shape text is bold.

IsChart: A **boolean** that specifies whether the shape is a chart. This element MUST be present.

IsConnected: A **boolean** that specifies whether the shape is a connector that is attached to one or more shapes. This element MUST be present.

IsGroup: A **boolean** that specifies whether the shape is a group of shapes. This element MUST be present.

IsInk: A **boolean** that specifies whether the shape is an **ink** drawing. This element MUST be present.

IsItalic: A **boolean** that specifies whether the shape text is italicized.

IsLine: A **boolean** that specifies whether the shape is a line. This element MUST be present.

IsNonNativeVideo: Reserved. MUST be ignored.

IsOleObject: A **boolean** that specifies whether the shape is an **OLE object**. This element MUST be present.

IsPicture: A **boolean** that specifies whether the shape is a picture. This element MUST be present.

IsPlaceholder: A **boolean** that specifies whether the shape is a **placeholder**. This element MUST be present.

IsPrompt: A **boolean** that specifies whether the shape contains text. This element MUST be present.

IsSmartArt: A **boolean** that specifies whether the shape is a **SmartArt** diagram. This element MUST be present.

IsStraightLine: A **boolean** that specifies whether the shape is a straight line. This element MUST be present.

IsTable: A **boolean** that specifies whether the shape is a table. This element MUST be present.

IsTextbox: A **boolean** that specifies whether the shape is a text box. This element MUST be present.

IsUnderline: A **boolean** that specifies whether the shape text is underlined.

PlaceholderType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of placeholder. This element MUST be present.

RotatedBoundingRegion: A **BoundingRegion** complex element (section 2.2.4.15) that specifies the orientation of the shape. This element MUST be present.

Rotation: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the rotation of the shape around its center in degrees.

ShapeId: An **unsignedInt** that specifies the identifier of the shape. This element MUST be present.

ShapeViewElemId: An **unsignedInt** that specifies the identifier of the **ViewElement** complex element (section 2.2.4.51) for the shape. This element MUST be present.

SmartArtInfo: A **SmartArtInfo** complex element (section 2.2.4.47) that specifies information about the SmartArt diagram. This element MUST be present if and only if **IsSmartArt** is true.

TextAlignmentType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of text alignment.

TextBulletType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of text bullet.

TextDirectionType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of text.

TextViewElemId: An **unsignedInt** that specifies the identifier of the **ViewElement** for the text content of the shape.

X: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the x coordinate of the shape.

Y: A **double** that specifies the y coordinate of the shape.

Z: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the **z-order** of the shape.

2.2.4.29   EditSlide

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditSlide** complex type specifies a **presentation slide**.

```
<xs:complexType name="EditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Comments" nillable="true" type="tns2:ArrayOfComment"/>
    <xs:element minOccurs="0" name="ContentMasterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Created" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="EditAnims" nillable="true"
type="tns2:ArrayOfEditAnimInfo"/>
    <xs:element minOccurs="0" name="EditShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
    <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns2:EditTransitionInfo"/>
    <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
    <xs:element minOccurs="0" name="ID" type="tns2:SlideID"/>
    <xs:element minOccurs="0" name="IsTitleContentMaster" type="xs:boolean"/>
    <xs:element minOccurs="0" name="MainMasterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Notes" nillable="true" type="tns2:Notes"/>
    <xs:element minOccurs="0" name="SlideId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Theme" nillable="true" type="tns2:Theme"/>
    <xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true"
type="tns2:ViewElement"/>
    <xs:element minOccurs="0" name="ViewElems" nillable="true"
type="tns2:ArrayOfViewElement"/>
```

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

Comments: An **ArrayOfComment** complex element (section 2.2.4.1) that specifies **comments** for the presentation slide.

ContentMasterId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the **ContentMasterFe** complex element (section 2.2.4.20) for the presentation slide. This element MUST be present.

Created: Reserved. MUST be ignored.

EditAnims: An **ArrayOfEditAnimInfo** complex element (section 2.2.4.3) that specifies the list of animations on the slide.

EditShapes: An ArrayOfEditShape complex element (section 2.2.4.5) that specifies the shapes of the presentation slide. This element MUST be present.

EditTransition: An **EditTransitionInfo** complex element (section 2.2.4.32) that specifies the slide transition.

Hidden: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the presentation slide is hidden. This element MUST be present.

ID: A **SlideID** (section 2.2.4.44) that specifies the identifier of the presentation slide.

IsTitleContentMaster: A **boolean** that specifies whether the **slide layout** specified by **ContentMasterId** is a **title master slide**. This element MUST be present.

MainMasterId: An **unsignedInt** that specifies the identifier of the **main master slide** for this presentation slide. This element MUST be present.

Notes: A **Notes** complex element (section 2.2.4.37) that specifies the presentation notes for the presentation slide. This element MUST be present.

SlideId: An **unsignedInt** that specifies the identifier of the presentation slide. This element MUST be present.

Theme: A **Theme** complex element (section 2.2.4.49) that specifies the **theme** for the presentation slide. This element MUST be present.

ThumbnailViewElement: A **ViewElement** complex element (section 2.2.4.51) that specifies the thumbnail of the presentation slide. This element MUST be present.

ViewElems: An **ArrayOfViewElement** complex element (section 2.2.4.14) that specifies the **ViewElement** elements for slide content of the presentation slide. This element MUST be present.

2.2.4.30   EditSlideChanges

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditSlideChanges** complex type specifies the content of the **presentation slide**.

The content of this element is modified as a result of a request to the protocol server.

```
<xs:complexType name="EditSlideChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Comments" nillable="true" type="tns2:ArrayOfComment"/>
```

```
        <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
        <xs:element minOccurs="0" name="EditAnims" nillable="true"
type="tns2:ArrayOfEditAnimInfo"/>
        <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns2:EditTransitionInfo"/>
        <xs:element minOccurs="0" name="Elems" nillable="true" type="tns2:ArrayOfViewElement"/>
        <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ModifiedShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
        <xs:element minOccurs="0" name="Notes" nillable="true" type="tns2:Notes"/>
        <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
        <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
```

Comments: An **ArrayOfComment** complex element (section 2.2.4.1) that specifies **comments** for the presentation slide.

DelElems: Reserved. MUST be ignored.

EditAnims: An **ArrayOfEditAnimInfo** complex element (section 2.2.4.3) that specifies the list of animations on the slide.

EditTransition: An **EditTransitionInfo** complex element (section 2.2.4.32) that specifies the slide transition.

Elems: An **ArrayOfViewElement** complex element (section 2.2.4.14) that specifies the **ViewElement** complex elements (section 2.2.4.51) for slide content on the presentation slide.

HasAnimationOrTransition: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the presentation slide has an animation or a transition.

Hidden: A **boolean** that specifies whether the presentation slide is hidden.

Id: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the presentation slide. This element MUST be present.

ModifiedShapes: An **ArrayOfEditShape** complex element (section 2.2.4.5) that specifies the shapes modified.

Notes: A **Notes** complex element (section 2.2.4.37) that specifies the presentation notes for the presentation slide.

Refresh: A **boolean** that specifies whether the presentation slide has outdated **ViewElement** elements.

Thumb: A **ViewElement** element that specifies the thumbnail of the presentation slide.

Title: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the title of the presentation slide.

2.2.4.31   EditSlideInfoFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditSlideInfoFe** complex type specifies information about a **presentation slide**.

```
<xs:complexType name="EditSlideInfoFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
     <xs:sequence>
       <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
       <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
       <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
       <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
     </xs:sequence>
   </xs:complexType>
```

HasAnimationOrTransition: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the presentation slide has an animation or a transition.

Hidden: A **boolean** that specifies whether the presentation slide is hidden.

Id: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies an identifier for the presentation slide.

Thumb: A **ViewElement** complex element (section 2.2.4.51) that specifies the thumbnail of the presentation slide.

Title: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the title of the presentation slide.

2.2.4.32   EditTransitionInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **EditTransitionInfo** complex type<31> specifies a slide transition.

```
   <xs:complexType name="EditTransitionInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
     <xs:sequence>
       <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Duration" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="IsManualAdvance" type="xs:boolean"/>
       <xs:element minOccurs="0" name="TransitionType" type="xs:unsignedInt"/>
     </xs:sequence>
   </xs:complexType>
```

Direction: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of the transition.

Duration: An **unsignedInt** that specifies the duration of the transition in milliseconds.

IsManualAdvance: Reserved. MUST be ignored.

TransitionType: An **unsignedInt** that specifies the type of the transition.

2.2.4.33   FontSizeMapping

Namespace: http://schemas.datacontract.org/2004/07/p

Reserved; this element MUST be ignored.

```
   <xs:complexType name="FontSizeMapping" xmlns:xs="http://www.w3.org/2001/XMLSchema">
     <xs:sequence>
       <xs:element minOccurs="0" name="Size1" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Size2" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Size3" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Size4" type="xs:unsignedInt"/>
       <xs:element minOccurs="0" name="Size5" type="xs:unsignedInt"/>
```

```
      <xs:element minOccurs="0" name="Size6" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="Size7" type="xs:unsignedInt"/>
   </xs:sequence>
</xs:complexType>
```

Size1: Reserved. MUST be ignored.

Size2: Reserved. MUST be ignored.

Size3: Reserved. MUST be ignored.

Size4: Reserved. MUST be ignored.

Size5: Reserved. MUST be ignored.

Size6: Reserved. MUST be ignored.

Size7: Reserved. MUST be ignored.

2.2.4.34   Html

Namespace: http://schemas.datacontract.org/2004/07/p

The **Html** complex type specifies **HTML** content.

```
<xs:complexType name="Html" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Text: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the HTML content.

2.2.4.35   MainMasterFe

Namespace: http://schemas.datacontract.org/2004/07/p

The **MainMasterFe** complex type specifies a **main master slide**.

```
<xs:complexType name="MainMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="ContentMasters" nillable="true"
type="tns2:ArrayOfContentMasterFe"/>
    <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="InContent" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ThemeFamilyId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="VariantIndex" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

ContentMasters: An **ArrayOfContentMasterFe** complex element (section 2.2.4.2) that specifies **slide layouts**.

Id: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the main master slide.

InContent: Reserved. MUST be ignored.

Name: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the name of the main master slide.

ThemeFamilyId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **theme** of the main master slide.

VariantIndex: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the theme variant of the main master slide.

2.2.4.36   MainMasterResourcesFe

Namespace: http://schemas.datacontract.org/2004/07/p

Reserved. MUST be ignored.

```
<xs:complexType name="MainMasterResourcesFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="LineStyles" nillable="true"
type="tns2:ArrayOfStyleGalleryItem"/>
    <xs:element minOccurs="0" name="MasterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ShapeStyles" nillable="true"
type="tns2:ArrayOfStyleGalleryItem"/>
  </xs:sequence>
</xs:complexType>
```

LineStyles: Reserved. MUST be ignored.

MasterId: Reserved. MUST be ignored.

ShapeStyles: Reserved. MUST be ignored.

2.2.4.37   Notes

Namespace: http://schemas.datacontract.org/2004/07/p

The **Notes** complex type specifies the notes of a **presentation slide**.

```
<xs:complexType name="Notes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Html" nillable="true" type="tns2:Html"/>
    <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

Html: An **Html** complex element (section 2.2.4.34) that specifies the content of the notes.

IsPrompt: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the notes is empty.

2.2.4.38   Point

Namespace: http://schemas.datacontract.org/2004/07/p

The **Point** complex type specifies a two dimensional point.

```
<xs:complexType name="Point" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="X" type="xs:int"/>
    <xs:element minOccurs="0" name="Y" type="xs:int"/>

  </xs:sequence>
```

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

X: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the x coordinate. This element MUST be present.

Y: An **int** that specifies the y coordinate. This element MUST be present.

2.2.4.39   PptViewingService.PrintResult

Namespace: http://schemas.datacontract.org/2004/07/p

The **PptViewingService.PrintResult** complex type<32> specifies the result of a print operation.

```
<xs:complexType name="PptViewingService.PrintResult"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="PrintUrl" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

PrintUrl: A **string** ([XMLSCHEMA2] section 3.2.1) element that specifies the **URL** for getting a printable version of the **presentation**.

2.2.4.40   PresetSchemeColorMapping

Namespace: http://schemas.datacontract.org/2004/07/p

The **PresetSchemeColorMapping** complex type<33> specifies a set of colors in the **theme**.

```
<xs:complexType name="PresetSchemeColorMapping" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Background1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Background2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Text1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Text2" nillable="true" type="tns2:ThemeColor"/>
  </xs:sequence>
</xs:complexType>
```

Accent1: A **ThemeColor** complex element (section 2.2.4.50) that defines the first accent color in the theme.

Accent2: A **ThemeColor** element that defines the second accent color in the theme.

Accent3: A **ThemeColor** element that defines the third accent color in the theme.

Accent4: A **ThemeColor** element that defines the fourth accent color in the theme.

Accent5: A **ThemeColor** element that defines the fifth accent color in the theme.

Accent6: A **ThemeColor** element that defines the sixth accent color in the theme.

Background1: A **ThemeColor** element that defines the first background color in the theme.

Background2: A **ThemeColor** element that defines the second background color in the theme.

Text1: A **ThemeColor** element that defines the first text color in the theme.

Text2: A **ThemeColor** element that defines the second text color in the theme.

2.2.4.41　Rectangle

Namespace: http://schemas.datacontract.org/2004/07/p

The **Rectangle** complex type specifies a rectangle.

```
<xs:complexType name="Rectangle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Bottom" type="xs:int"/>
    <xs:element minOccurs="0" name="Left" type="xs:int"/>
    <xs:element minOccurs="0" name="Right" type="xs:int"/>
    <xs:element minOccurs="0" name="Top" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Bottom: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the location of the bottom of the rectangle. This element MUST be present.

Left: An **int** that specifies the location of the left side of the rectangle. This element MUST be present.

Right: An **int** that specifies the location of the right side of the rectangle. This element MUST be present.

Top: An **int** that specifies the location of the top of the rectangle. This element MUST be present.

2.2.4.42　ServiceError

Namespace: http://schemas.datacontract.org/2004/07/p

The **ServiceError** complex type specifies error information.

This information is returned by the protocol server to a protocol client.

```
<xs:complexType name="ServiceError" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interfa
ce.Shared" minOccurs="0" name="Code" type="tns:ErrorCode"/>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.I
nterface" minOccurs="0" name="RecommendedActions" type="tns1:ClientActions"/>
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Type" type="tns2:ServiceErrorType"/>
  </xs:sequence>
</xs:complexType>
```

Code: Reserved. MUST be ignored.

Message: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the error message description. This element MUST be present. The string length MUST be greater than zero, if the **Type** element has a value of **ApplicationError** (see section 2.2.5.6).

RecommendedActions: Reserved. MUST be ignored.

Title: A **string** that specifies the error title. This element MUST be present. The string length MUST be greater than zero, if the **Type** element has a value of **ApplicationError**.

Type: A **ServiceErrorType** simple type (section 2.2.5.6) that specifies the error type. This element MUST be present.

2.2.4.43 ServiceResult

Namespace: http://schemas.datacontract.org/2004/07/p

The **ServiceResult** complex type specifies the result of a protocol method.

The protocol server returns this type to the protocol client containing either a successful **Result** element or an **Error** element.

```
<xs:complexType name="ServiceResult" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Error" nillable="true" type="tns2:ServiceError"/>
    <xs:element minOccurs="0" name="Result" nillable="true" type="xs:anyType"/>
  </xs:sequence>
</xs:complexType>
```

Error: An optional **ServiceError** complex element (section 2.2.4.42) that specifies an error result of a protocol message response. This element MUST NOT be empty if the **Result** element is empty. Otherwise, this element MUST be empty.

Result: An optional **anyType** ([XMLSCHEMA1] section 3.4.7) that specifies a successful result of a protocol message response. This element MUST NOT be empty if the **Error** element is empty. Otherwise, this element MUST be empty.

2.2.4.44 SlideID

Namespace: http://schemas.datacontract.org/2004/07/p

A complex type that SHOULD <34>identify a **presentation slide**.

```
<xs:complexType name="SlideID" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Cid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Sid" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
```

Cid: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the creation identifier of a presentation slide.

Sid: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of a presentation slide.

2.2.4.45 SlideIdList

Namespace: http://schemas.datacontract.org/2004/07/p

The **SlideIdList** complex type specifies a list of identifiers for **presentation slides**.

```
<xs:complexType name="SlideIdList" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
```

```
      <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
   minOccurs="0" name="SlideIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
    </xs:sequence>
   </xs:complexType>
```

SlideIds: An **ArrayOfunsignedInt** complex element (section 2.2.4.13) that specifies the list of identifiers.

2.2.4.46   SlideUpdateInfo

Namespace: http://schemas.datacontract.org/2004/07/p

Reserved. MUST be ignored.

```
   <xs:complexType name="SlideUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
     <xs:sequence>
       <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
       <xs:element minOccurs="0" name="lsu" type="xs:dateTime"/>
       <xs:element minOccurs="0" name="sid" type="tns2:SlideID"/>
     </xs:sequence>
   </xs:complexType>
```

leid: Reserved. MUST be ignored.

lsu: Reserved. MUST be ignored.

sid: Reserved. MUST be ignored.

2.2.4.47   SmartArtInfo

Namespace: http://schemas.datacontract.org/2004/07/p

The **SmartArtInfo** complex type specifies information about a **SmartArt** diagram.

```
   <xs:complexType name="SmartArtInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
     <xs:sequence>
       <xs:element minOccurs="0" name="fReverseChecked" type="xs:boolean"/>
       <xs:element minOccurs="0" name="fReverseEnabled" type="xs:boolean"/>
     </xs:sequence>
   </xs:complexType>
```

fReverseChecked: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the SmartArt diagram is reversed.

fReverseEnabled: A **boolean** that specifies whether the SmartArt diagram can be reversed.

2.2.4.48   StyleGalleryItem

Namespace: http://schemas.datacontract.org/2004/07/p

The **StyleGalleryItem** complex type<35> specifies a **shape** style.

```
   <xs:complexType name="StyleGalleryItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
     <xs:sequence>
       <xs:element minOccurs="0" name="Icon" nillable="true" type="tns2:ViewElement"/>
       <xs:element minOccurs="0" name="StyleId" type="xs:unsignedInt"/>
```

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

Icon: A **ViewElement** complex element (section 2.2.4.51) that specifies the style of the shape. This element MUST be present.

StyleId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of the shape style. This element MUST be present.

2.2.4.49   Theme

Namespace: http://schemas.datacontract.org/2004/07/p

The **Theme** complex type specifies information about a **theme**.

```
<xs:complexType name="Theme" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Light1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Light2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true"
type="tns2:PresetSchemeColorMapping"/>
  </xs:sequence>
</xs:complexType>
```

Accent1: A **ThemeColor** complex element (section 2.2.4.50) that defines the first accent color in the theme.

Accent2: A **ThemeColor** element that defines the second accent color in the theme.

Accent3: A **ThemeColor** element that defines the third accent color in the theme.

Accent4: A **ThemeColor** element that defines the fourth accent color in the theme.

Accent5: A **ThemeColor** element that defines the fifth accent color in the theme

Accent6: A **ThemeColor** element that defines the sixth accent color in the theme.

Dark1: A **ThemeColor** element that defines a dark color in the theme.

Dark2: A **ThemeColor** element that defines a second dark color in the theme.

Light1: A **ThemeColor** element that defines a light color in the theme.

Light2: A **ThemeColor** element that defines a second light color in the theme.

PresetSchemeColorMapping: A **PresetSchemeColorMapping** complex element (section 2.2.4.40) that defines a set of colors in the theme.

2.2.4.50   ThemeColor

Namespace: http://schemas.datacontract.org/2004/07/p

The **ThemeColor** complex type specifies a color using the red, green, blue RGB color model.

Red, green, and blue are each expressed as an unsigned byte from 0 for no intensity to 255 for full intensity.

```
<xs:complexType name="ThemeColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="b" type="xs:unsignedByte"/>
    <xs:element minOccurs="0" name="g" type="xs:unsignedByte"/>
    <xs:element minOccurs="0" name="r" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
```

b: An **unsignedByte** ([XMLSCHEMA2] section 3.3.24) that specifies the blue component of the color. This element MUST be present.

g: An **unsignedByte** that specifies the green component of the color. This element MUST be present.

r: An **unsignedByte** that specifies the red component of the color. This element MUST be present.

2.2.4.51   ViewElement

Namespace: http://schemas.datacontract.org/2004/07/p

The **ViewElement** complex type specifies a visual representation of **presentation slide** content.

```
<xs:complexType name="ViewElement" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Clip" nillable="true" type="tns2:ClippingInfo"/>
    <xs:element minOccurs="0" name="Html" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ImgId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Position" nillable="true" type="tns2:Point"/>
    <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
```

Alt: Reserved. MUST be ignored.

Clip: A **ClipppingInfo** complex element (section 2.2.4.16) that specifies the region within the image. This element MUST be present.

Html: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies text content. This element MUST be present, if and only if **ImgId** is not present.

Id: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier. This element MUST be present.

ImgId: A **string** that specifies the URL of the image.<36>

Position: A **Point** complex element (section 2.2.4.38) that specifies the position.

Z: An **unsignedInt** that specifies the **z-order**.

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
char	Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.
ClientActions	Reserved. MUST be ignored.
duration	Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.
ErrorCode	Reserved. MUST be ignored.
guid	Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.
ServiceErrorType	A simple type that specifies an enumeration of a set of protocol errors returned by the protocol server to the protocol client.

2.2.5.1 char

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

Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.

```
<xs:simpleType name="char" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
```

2.2.5.2 ClientActions

Namespace:
http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface

Reserved. MUST be ignored.

```
<xs:simpleType name="ClientActions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Dismiss"/>
        <xs:enumeration value="Close"/>
        <xs:enumeration value="OpenInClient"/>
        <xs:enumeration value="Refresh"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for the **ClientActions** simple type.

Value	Meaning
None	Reserved. MUST be ignored.
Dismiss	Reserved. MUST be ignored.
Close	Reserved. MUST be ignored.
OpenInClient	Reserved. MUST be ignored.
Refresh	Reserved. MUST be ignored.

2.2.5.3 duration

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

Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.

```
<xs:simpleType name="duration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:duration">
    <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
    <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
    <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.5.4 ErrorCode

Namespace:
http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared

Reserved. MUST be ignored.

```
<xs:simpleType name="ErrorCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ErrorRESERVEDSuccess"/>
    <xs:enumeration value="ErrorRESERVEDUnknown"/>
    <xs:enumeration value="ErrorCannotOpenDocumentFileType"/>
    <xs:enumeration value="ErrorCannotOpenDocumentIRM"/>
    <xs:enumeration value="ErrorCannotOpenDocumentPassword"/>
    <xs:enumeration value="ErrorCannotOpenDocument"/>
    <xs:enumeration value="ErrorCannotInstallFonts"/>
    <xs:enumeration value="ErrorCannotConvertModifyPassword"/>
    <xs:enumeration value="ErrorCannotComposeSlideParse"/>
    <xs:enumeration value="ErrorCannotComposeSlideUnexpected"/>
    <xs:enumeration value="ErrorWacConversionFailure"/>
    <xs:enumeration value="ErrorResourceNotGenerated"/>
    <xs:enumeration value="ErrorGenericSlideCorruption"/>
    <xs:enumeration value="ErrorFileNotFound"/>
    <xs:enumeration value="ErrorGeneralUnknown"/>
    <xs:enumeration value="ErrorFailedToOpenDocument"/>
    <xs:enumeration value="ErrorFailedToRetrieveResource"/>
    <xs:enumeration value="ErrorFailedToRenderDocument"/>
    <xs:enumeration value="ErrorFailedToRenderSlide"/>
    <xs:enumeration value="ErrorFailedToSaveDocument"/>
    <xs:enumeration value="ErrorCannotSaveDocument"/>
    <xs:enumeration value="ErrorInvalidCommand"/>
    <xs:enumeration value="ErrorDocVersionMismatch"/>
    <xs:enumeration value="ErrorCannotAcquirePptEditLock"/>
```

```
            <xs:enumeration value="ErrorRequiresCheckout"/>
            <xs:enumeration value="ErrorLockedForOfflineCheckout"/>
            <xs:enumeration value="ErrorLockedByAnotherUser"/>
            <xs:enumeration value="ErrorAccessDenied"/>
            <xs:enumeration value="ErrorNoLicense"/>
            <xs:enumeration value="ErrorRequestTooBig"/>
            <xs:enumeration value="ErrorTextTooBig"/>
            <xs:enumeration value="ErrorTryAgain"/>
            <xs:enumeration value="ErrorUnexpected"/>
            <xs:enumeration value="ErrorCannotOpenDocumentMacro"/>
            <xs:enumeration value="ErrorCannotOpenDocumentFinal"/>
            <xs:enumeration value="ErrorCannotOpenDocumentSigned"/>
            <xs:enumeration value="ErrorCannotOpenEmbeddedFonts"/>
            <xs:enumeration value="ErrorNoAvailableEditAppServer"/>
            <xs:enumeration value="ErrorServiceUnavailable"/>
            <xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
            <xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
            <xs:enumeration value="ErrorCannotOpenDocumentGatekeeperFailure"/>
            <xs:enumeration value="ErrorEditWorkerTimeout"/>
            <xs:enumeration value="ErrorEditSlideCorruption"/>
            <xs:enumeration value="ErrorServiceBusy"/>
            <xs:enumeration value="ErrorClipartCannotConnect"/>
            <xs:enumeration value="ErrorClipartCannotDownload"/>
            <xs:enumeration value="ErrorMediaNotEnabled"/>
            <xs:enumeration value="ErrorUnsupportedMediaFormat"/>
            <xs:enumeration value="ErrorLinkedMediaNotEnabled"/>
            <xs:enumeration value="ErrorUnsupportedLinkTarget"/>
            <xs:enumeration value="ErrorEmbeddedMediaNotEnabled"/>
            <xs:enumeration value="ErrorEmbeddedMediaExceedsMaxSize"/>
            <xs:enumeration value="ErrorTranscodingNotEnabled"/>
            <xs:enumeration value="ErrorMediaUnavailable"/>
            <xs:enumeration value="ErrorCannotOpenODPDocumentPassword"/>
            <xs:enumeration value="ErrorLocalChangeLostDueToCoautherEdit"/>
            <xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
            <xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
            <xs:enumeration value="ErrorInProgress"/>
            <xs:enumeration value="ErrorImageTooLarge"/>
            <xs:enumeration value="ErrorImageWrongFormat"/>
            <xs:enumeration value="ErrorImageNoAccess"/>
            <xs:enumeration value="ErrorWacItemRetrievalDocumentOutputNotFound"/>
            <xs:enumeration value="ErrorWacItemRetrievalAccessDenied"/>
            <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamDirty"/>
            <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamClean"/>
            <xs:enumeration value="ErrorWacItemRetrievalUnknownError"/>
            <xs:enumeration value="ErrorWacConversionManagerDoesNotSupportThisRequest"/>
            <xs:enumeration value="ErrorWacConversionCannotFindSourceDocument"/>
            <xs:enumeration value="ErrorWacConversionWorkerException"/>
            <xs:enumeration value="ErrorWacConversionWorkerCrashed"/>
            <xs:enumeration value="ErrorWacConversionWorkerHung"/>
            <xs:enumeration value="ErrorWacConversionUnknownResponse"/>
            <xs:enumeration value="ErrorWacConversionUnknownError"/>
            <xs:enumeration value="ErrorWacConversionFirstServerResult"/>
            <xs:enumeration value="ErrorCannotOpenDocumentWrongExt"/>
            <xs:enumeration value="ErrorCannotOpenDocumentStgDocFileCorrupt"/>
            <xs:enumeration value="ErrorCannotOpenDocumentStgFileAlreadyExists"/>
            <xs:enumeration value="ErrorCannotOpenDocumentMmcfPackagePartNotFound"/>
            <xs:enumeration value="ErrorCannotOpenDocumentArchiveError"/>
            <xs:enumeration value="ErrorCannotPastePictureCannotCreateUrl"/>
            <xs:enumeration value="ErrorCannotPastePictureInvalidResponse"/>
            <xs:enumeration value="ErrorCannotPastePictureNotFound"/>
            <xs:enumeration value="ErrorCannotPastePictureResponseEmpty"/>
            <xs:enumeration value="ErrorCannotPastePictureUnexpectedStatusCode"/>
            <xs:enumeration value="ErrorCannotPastePictureUnexpectedWebException"/>
            <xs:enumeration value="ErrorRESERVEDLastError"/>
        </xs:restriction>
    </xs:simpleType>
```

The following table specifies the allowable values for the **ErrorCode** simple type.

Value	Meaning
ErrorRESERVEDSuccess	Reserved. MUST be ignored.
ErrorRESERVEDUnknown	Reserved. MUST be ignored.
ErrorCannotOpenDocumentFileType	Reserved. MUST be ignored.
ErrorCannotOpenDocumentIRM	Reserved. MUST be ignored.
ErrorCannotOpenDocumentPassword	Reserved. MUST be ignored.
ErrorCannotOpenDocument	Reserved. MUST be ignored.
ErrorCannotInstallFonts	Reserved. MUST be ignored.
ErrorCannotConvertModifyPassword	Reserved. MUST be ignored.
ErrorCannotComposeSlideParse	Reserved. MUST be ignored.
ErrorCannotComposeSlideUnexpected	Reserved. MUST be ignored.
ErrorWacConversionFailure	Reserved. MUST be ignored.
ErrorResourceNotGenerated	Reserved. MUST be ignored.
ErrorGenericSlideCorruption	Reserved. MUST be ignored.
ErrorFileNotFound	Reserved. MUST be ignored.
ErrorGeneralUnknown	Reserved. MUST be ignored.
ErrorFailedToOpenDocument	Reserved. MUST be ignored.
ErrorFailedToRetrieveResource	Reserved. MUST be ignored.
ErrorFailedToRenderDocument	Reserved. MUST be ignored.
ErrorFailedToRenderSlide	Reserved. MUST be ignored.
ErrorFailedToSaveDocument	Reserved. MUST be ignored.
ErrorCannotSaveDocument	Reserved. MUST be ignored.
ErrorInvalidCommand	Reserved. MUST be ignored.
ErrorDocVersionMismatch	Reserved. MUST be ignored.
ErrorCannotAcquirePptEditLock	Reserved. MUST be ignored.
ErrorRequiresCheckout	Reserved. MUST be ignored.
ErrorLockedForOfflineCheckout	Reserved. MUST be ignored.
ErrorLockedByAnotherUser	Reserved. MUST be ignored.
ErrorAccessDenied	Reserved. MUST be ignored.
ErrorNoLicense	Reserved. MUST be ignored.
ErrorRequestTooBig	Reserved. MUST be ignored.
ErrorTextTooBig	Reserved. MUST be ignored.
ErrorTryAgain	Reserved. MUST be ignored.

Value	Meaning
ErrorUnexpected	Reserved. MUST be ignored.
ErrorCannotOpenDocumentMacro	Reserved. MUST be ignored.
ErrorCannotOpenDocumentFinal	Reserved. MUST be ignored.
ErrorCannotOpenDocumentSigned	Reserved. MUST be ignored.
ErrorCannotOpenEmbeddedFonts	Reserved. MUST be ignored.
ErrorNoAvailableEditAppServer	Reserved. MUST be ignored.
ErrorServiceUnavailable	Reserved. MUST be ignored.
ErrorPptEditExistingExclusiveLock	Reserved. MUST be ignored.
ErrorPptEditCheckedOutByAnother	Reserved. MUST be ignored.
ErrorCannotOpenDocumentGatekeeperFailure	Reserved. MUST be ignored.
ErrorEditWorkerTimeout	Reserved. MUST be ignored.
ErrorEditSlideCorruption	Reserved. MUST be ignored.
ErrorServiceBusy	Reserved. MUST be ignored.
ErrorClipartCannotConnect	Reserved. MUST be ignored.
ErrorClipartCannotDownload	Reserved. MUST be ignored.
ErrorMediaNotEnabled	Reserved. MUST be ignored.
ErrorUnsupportedMediaFormat	Reserved. MUST be ignored.
ErrorLinkedMediaNotEnabled	Reserved. MUST be ignored.
ErrorUnsupportedLinkTarget	Reserved. MUST be ignored.
ErrorEmbeddedMediaNotEnabled	Reserved. MUST be ignored.
ErrorEmbeddedMediaExceedsMaxSize	Reserved. MUST be ignored.
ErrorTranscodingNotEnabled	Reserved. MUST be ignored.
ErrorMediaUnavailable	Reserved. MUST be ignored.
ErrorCannotOpenODPDocumentPassword	Reserved. MUST be ignored.
ErrorLocalChangeLostDueToCoautherEdit	Reserved. MUST be ignored.
ErrorNumberOfCoauthorsReachedMax	Reserved. MUST be ignored.
ErrorCannotAcquirePptEditSharedLock	Reserved. MUST be ignored.
ErrorInProgress	Reserved. MUST be ignored.
ErrorImageTooLarge	Reserved. MUST be ignored.
ErrorImageWrongFormat	Reserved. MUST be ignored.
ErrorImageNoAccess	Reserved. MUST be ignored.
ErrorWacItemRetrievalDocumentOutputNotFound	Reserved. MUST be ignored.

Value	Meaning
ErrorWacItemRetrievalAccessDenied	Reserved. MUST be ignored.
ErrorWacItemRetrievalCommunicationErrorStreamDirty	Reserved. MUST be ignored.
ErrorWacItemRetrievalCommunicationErrorStreamClean	Reserved. MUST be ignored.
ErrorWacItemRetrievalUnknownError	Reserved. MUST be ignored.
ErrorWacConversionManagerDoesNotSupportThisRequest	Reserved. MUST be ignored.
ErrorWacConversionCannotFindSourceDocument	Reserved. MUST be ignored.
ErrorWacConversionWorkerException	Reserved. MUST be ignored.
ErrorWacConversionWorkerCrashed	Reserved. MUST be ignored.
ErrorWacConversionWorkerHung	Reserved. MUST be ignored.
ErrorWacConversionUnknownResponse	Reserved. MUST be ignored.
ErrorWacConversionUnknownError	Reserved. MUST be ignored.
ErrorWacConversionFirstServerResult	Reserved. MUST be ignored.
ErrorCannotOpenDocumentWrongExt	Reserved. MUST be ignored.
ErrorCannotOpenDocumentStgDocFileCorrupt	Reserved. MUST be ignored.
ErrorCannotOpenDocumentStgFileAlreadyExists	Reserved. MUST be ignored.
ErrorCannotOpenDocumentMmcfPackagePartNotFound	Reserved. MUST be ignored.
ErrorCannotOpenDocumentArchiveError	Reserved. MUST be ignored.
ErrorCannotPastePictureCannotCreateUrl	Reserved. MUST be ignored.
ErrorCannotPastePictureInvalidResponse	Reserved. MUST be ignored.
ErrorCannotPastePictureNotFound	Reserved. MUST be ignored.
ErrorCannotPastePictureResponseEmpty	Reserved. MUST be ignored.
ErrorCannotPastePictureUnexpectedStatusCode	Reserved. MUST be ignored.
ErrorCannotPastePictureUnexpectedWebException	Reserved. MUST be ignored.
ErrorRESERVEDLastError	Reserved. MUST be ignored.

2.2.5.5 guid

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

Reserved. MUST be ignored. The client and the server MUST NOT use this as the type of an element, and the client and the server MUST ignore it, if receiving an element of this type.

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-
F]{12}"/>
```

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

2.2.5.6 ServiceErrorType

Namespace: http://schemas.datacontract.org/2004/07/p

A simple type that specifies an enumeration of a set of protocol errors returned by the protocol server to the protocol client.

```
<xs:simpleType name="ServiceErrorType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="UnknownError"/>
    <xs:enumeration value="ApplicationError"/>
    <xs:enumeration value="Timeout"/>
    <xs:enumeration value="ServiceBusy"/>
    <xs:enumeration value="SessionFull"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for the **ServiceErrorType** simple type.

Value	Meaning
UnknownError	The protocol server encountered an unknown error.
ApplicationError	The protocol server encountered an application error.
Timeout	The protocol server timed out.
ServiceBusy	Reserved. MUST be ignored.
SessionFull	Reserved. MUST be ignored.

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 Server Details

The following diagram describes the communication between the protocol client and the protocol server.
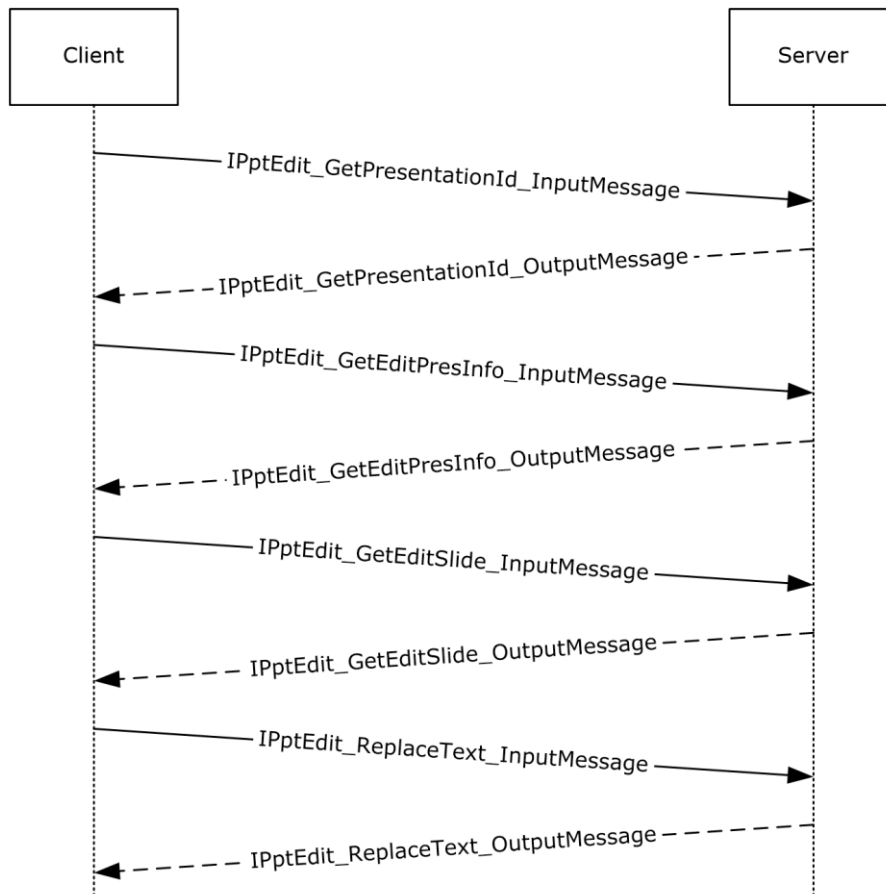
Figure 2: Sample communication between protocol client and protocol server

The protocol client sends the **IPptEdit_GetPresentationId_InputMessage SOAP message** as specified in section 3.1.4.27 to obtain a valid identifier for a **presentation** within an **IPptEdit_GetPresentationId_OutputMessage.**

The protocol client sends an **IPptEdit_GetEditPresInfo_InputMessage** message and the protocol server responds with an **IPptEdit_GetEditPresInfo_OutputMessage** containing information about the requested presentation.

The protocol client sends one or more **IPptEdit_GetEditSlide_InputMessage** messages and the protocol server responds with an **IPptEdit_GetSlide_OutputMessage** containing information about the requested **presentation slide**.

The protocol client sends one or more **IPptEdit_ReplaceText_InputMessage** messages and the protocol server responds with an **IPptEdit_ReplaceText_OutputMessage** containing information about the result of the operation.

3.1.1 Abstract Data Model

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

3.1.2 Timers

None.

3.1.3 Initialization

The protocol server MUST expose its Web methods at the following URLs.

The URL which the client sends requests to modify presentation content SHOULD<37> conform to the following structure: *base URL*/p/ppt/edit.svc. This is the minimal required structure. Case-sensitivity is specific to the protocol server implementation.

The URL which the client sends requests to modify image content SHOULD<38> conform to the following structure: base URL/p/pptInsertPicture.ashx. This is the minimal required structure. Case-sensitivity is specific to the protocol server implementation.

3.1.4 Message Processing Events and Sequencing Rules

The message processing events and sequencing rules are listed in this section.

The following table summarizes the list of operations as defined by this specification.

Operation	Description
AddComment	The **AddComment** operation SHOULD<39> be used to insert a **comment** into a **presentation**.
ApplyShapeFill	The **ApplyShapeFill** operation SHOULD<40> be used to modify the color of a **shape** in a presentation.
ApplyShapeOutlineColor	The **ApplyShapeOutlineColor** operation SHOULD<41> be used to modify the color of the outline of a shape in a presentation.
ApplyShapeOutlineDashStyle	The **ApplyShapeOutlineDashStyle** operation SHOULD<42> be used to modify the dash type of the outline of a shape.
ApplyShapeOutlineEndStyle	The **ApplyShapeOutlineEndStyle** operation SHOULD<43> be used to modify the end style of a line in a presentation.

Operation	Description
ApplyShapeOutlineWidth	The **ApplyShapeOutlineWidth** operation SHOULD<44> be used to modify the width of the outline of a shape.
ApplyShapeStyle	The **ApplyShapeStyle** operation SHOULD<45> be used to apply a style to a shape in a presentation.
ApplyTheme	The **ApplyTheme** operation SHOULD<46> be used to change the theme applied to a presentation.
ArrangeShape	The **ArrangeShape** operation SHOULD<47> be used to rearrange a shape in a presentation.
ChangeLayout	The **ChangeLayout** operation is used to change the layout of a slide.
ChangePictureStyle	The **ChangePictureStyle** operation is used to change the style applied to a picture.
ChangeSmartArtColor	The **ChangeSmartArtColor** operation is used to change the color transform applied to a **SmartArt** diagram.
ChangeSmartArtLayout	The **ChangeSmartArtLayout** operation is used to change the layout applied to a SmartArt diagram.
ChangeSmartArtStyle	The **ChangeSmartArtStyle** operation is used to change the style applied to a SmartArt diagram.
ClearPlaceholder	The **ClearPlaceholder** is used to delete a shape in a presentation.
DeleteComment	The **DeleteComment** operation SHOULD<48> be used to delete a comment from a presentation.
DeleteSlide	The **DeleteSlide** operation is used to delete a **presentation slide** from a presentation.
DuplicateShape	The **DuplicateShape** operation SHOULD<49> be used to duplicate a shape in a presentation.
DuplicateSlide	The **DuplicateSlide** operation is used to duplicate a presentation slide.
EditComment	The **EditComment** operation SHOULD<50> be used to change the contents of a comment in a presentation
FlipShape	The **FlipShape** operation SHOULD<51> be used to flip a shape vertically or horizontally in a presentation.
GetCoauthUpdates	The **GetCoauthUpdates** operation SHOULD<52> be used to retrieve co-authoring state for a presentation.
GetEditPresInfo	The **GetEditPresInfo** operation is used to retrieve information about a presentation.
GetEditPresInfoGetEditSlideById	The **GetEditPresInfoGetEditSlideById** operation SHOULD<53> be used to retrieve information about a presentation.
GetEditPresResources	Reserved. MUST not be called.
GetEditSlide	The **GetEditSlide** operation is used to retrieve information about a presentation slide.
GetPresentationId	The **GetPresentationId** operation is used to retrieve an identifier for a presentation.
InsertClipart	The **InsertClipart** operation SHOULD<54> be used to insert a picture

Operation	Description
	into a presentation.
InsertShape	The **InsertShape** operation SHOULD<55> be used to insert a shape in a presentation.
InsertSlide	The **InsertSlide** operation is used to insert a presentation slide into a presentation.
InsertSmartArt	The **InsertSmartArt** operation is used to insert a SmartArt diagram into a presentation
LogULS	Reserved. MUST not be called.
MoveComment	The **MoveComment** operation SHOULD<56> be used to change the position of a comment in a presentation.
MoveShape	The **MoveShape** operation SHOULD<57> be used to move a shape in a presentation.
MoveSlide	The **MoveSlide** operation is used to move a presentation slide in a presentation.
PastePicture	The **PastePicture** operation is used to paste a picture into a presentation.
Print	A **Print** operation SHOULD<58> be used to print a presentation.
Redo	The **Redo** operation is used to redo the last operation in a presentation that is undone.
RemoveShapeFill	The **RemoveShapeFill** operation SHOULD<59> be used to remove the color of a shape in a presentation.
RemoveShapeOutline	The **RemoveShapeOutline** operation SHOULD<60> be used to remove the outline of a shape in a presentation.
ReorderAnimation	The **ReorderAnimation** operation SHOULD<61> be used to reorder the animation of a shape in a presentation.
ReplaceNotes	The **ReplaceNotes** operation is used to replace presentation notes in a presentation.
ReplaceText	The **ReplaceText** operation is used to replace text in a shape in a presentation.
ResetPicture	The **ResetPicture** operation SHOULD<62> be used to remove all customizations on a picture in a presentation.
ResetSmartArt	The **ResetSmartArt** operation is used to remove all customizations on a SmartArt diagram in a presentation.
ResizeShape	The **ResizeShape** operation SHOULD<63> be used to resize a shape in a presentation.
ReverseSmartArt	The **ReverseSmartArt** operation is used to reverse the direction of a SmartArt diagram in a presentation.
RotateShape	The **RotateShape** operation SHOULD<64> be used to rotate a shape in a presentation.
SaveAndClose	The **SaveAndClose** operation is used to save the contents of a presentation and unlock it.
SetAnimation	The **SetAnimation** operation SHOULD<65> be used to apply an

Operation	Description
	animation to a shape in a presentation.
SetShapeAlignment	The **SetShapeAlignment** operation is used to set the alignment of a shape.
SetShapeBold	The **SetShapeBold** operation is used to make the text in a shape bold.
SetShapeBullet	The **SetShapeBullet** operation is used to make the text in a shape into a bulleted list.
SetShapeFontColor	The **SetShapeFontColor** operation is used to set the font color of a shape.
SetShapeFontName	The **SetShapeFontName** operation is used to set the font name for text for a shape.
SetShapeFontSize	The **SetShapeFontSize** operation is used to set the font size for text for a shape.
SetShapeItalic	The **SetShapeItalic** operation is used to italicize the text for a shape.
SetShapeTextDirection	The **SetShapeTextDirection** operation is used to set the text direction for a shape.
SetShapeUnderline	The **SetShapeUnderline** operation is used to underline text in a shape.
SetTransition	The **SetTransition** operation SHOULD<66> be used to apply a transition to a **slide** in a presentation.
SetTransitionApplyAll	The **SetTransitionApplyAll** operation SHOULD<67> be used to copy a transition from one slide and apply it to all other slides in a presentation.
SetWordArt	Reserved. MUST not be called.
ShapeFormatPainting	The **ShapeFormatPainting** operation SHOULD<68> be used to copy formatting from one shape and apply it to another shape in the presentation.
ShowHideSlide	The **ShowHideSlide** operation is used to show or hide a presentation slide.
Undo	The **Undo** operation is used to undo the last operation in a presentation that is not undone.
UngroupShape	The **UngroupShape** operation SHOULD<69> be used to ungroup a shape in a presentation.
UpdateCanary	Reserved. MUST be ignored.

3.1.4.1 AddComment

The **AddComment** operation SHOULD<70> be used to insert a **comment** into a **presentation**.

The following is the **WSDL** port type specification of the **AddComment WSDL operation**.

```
<wsdl:operation name="AddComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddComment" message="tns4:IPptEdit_AddComment_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddCommentResponse"
message="tns4:IPptEdit_AddComment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   </wsdl:operation>
```

The protocol client sends an **IPptEdit_AddComment_InputMessage** request message, and the protocol server responds with an **IPptEdit_AddComment_OutputMessage** 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
IPptEdit_AddComment_InputMessage	The request WSDL message for the **AddComment WSDL operation**.
IPptEdit_AddComment_OutputMessage	The response WSDL message for the **AddComment** WSDL operation.

3.1.4.1.1.1   IPptEdit_AddComment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/AddComment
```

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

3.1.4.1.1.2   IPptEdit_AddComment_OutputMessage

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

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

3.1.4.1.2 Elements

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

Element	Description
AddComment	The input data for the **AddComment WSDL operation**.
AddCommentResponse	The result data for the **AddComment** WSDL operation.

3.1.4.1.2.1   AddComment

The **AddComment** element specifies the input data for the **AddComment WSDL operation**.

```
<xs:element name="AddComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="timeZoneBias" type="xs:int"/>
      <xs:element minOccurs="0" name="parentAuthor" type="xs:int"/>
      <xs:element minOccurs="0" name="parentIndex" type="xs:int"/>
      <xs:element minOccurs="0" name="fHasPos" type="xs:boolean"/>
      <xs:element minOccurs="0" name="x" type="xs:int"/>
      <xs:element minOccurs="0" name="y" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the **comment** that is being modified.

text: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the contents of the comment.

timeZoneBias: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the difference between the local time of the user and UTC, in minutes.

parentAuthor: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the identifier of the author of another comment. If this comment is not a reply, the value MUST be -1.

parentIndex: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the identifier of another comment. If this comment is not a reply, the value MUST be -1.

fHasPos: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies if the comment has a specific position on the presentation slide.

x: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the x coordinate of the comment.

y: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the y coordinate of the comment.

3.1.4.1.2.2   AddCommentResponse

The **AddCommentResponse** element specifies the result data for the **AddComment WSDL operation**.

```
<xs:element name="AddCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="AddCommentResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AddCommentResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.1.3 Complex Types

None.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 ApplyShapeFill

The **ApplyShapeFill** operation SHOULD<71> be used to modify the color of a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ApplyShapeFill WSDL operation**.

```
<wsdl:operation name="ApplyShapeFill" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFill"
message="tns4:IPptEdit_ApplyShapeFill_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFillResponse"
message="tns4:IPptEdit ApplyShapeFill OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeFill_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeFill_OutputMessage** 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
IPptEdit_ApplyShapeFill_InputMessage	The request WSDL message for the **ApplyShapeFill WSDL operation**.
IPptEdit_ApplyShapeFill_OutputMessage	The response WSDL message for the **ApplyShapeFill** WSDL operation.

3.1.4.2.1.1   IPptEdit_ApplyShapeFill_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeFill
```

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

3.1.4.2.1.2   IPptEdit_ApplyShapeFill_OutputMessage

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

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

3.1.4.2.2 Elements

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

Element	Description
ApplyShapeFill	The input data for the **ApplyShapeFill WSDL operation**.
ApplyShapeFillResponse	The result data for the **ApplyShapeFill** WSDL operation.

3.1.4.2.2.1   ApplyShapeFill

The **ApplyShapeFill** element specifies the input data for the **ApplyShapeFill WSDL operation**.

```
<xs:element name="ApplyShapeFill" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
      <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

RGBColor: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the red, green, and blue components of the color. This element MAY be present.

themeColor: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies a preset theme color. This element is ignored if the **RGBColor** element is present.

colorLuminance: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the luminance of the color.

fTintColor: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies if the color is a tint.

3.1.4.2.2.2   ApplyShapeFillResponse

The **ApplyShapeFillResponse** element specifies the result data for the **ApplyShapeFill WSDL operation**.

```
<xs:element name="ApplyShapeFillResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeFillResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.2.3 Complex Types

None.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 ApplyShapeOutlineColor

The **ApplyShapeOutlineColor** operation SHOULD<72> be used to modify the color of the outline of a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ApplyShapeOutlineColor WSDL operation**.

```
<wsdl:operation name="ApplyShapeOutlineColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineColor"
message="tns4:IPptEdit_ApplyShapeOutlineColor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineColorResponse"
message="tns4:IPptEdit_ApplyShapeOutlineColor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    </wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeOutlineColor_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeOutlineColor_OutputMessage** 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
IPptEdit_ApplyShapeOutlineColor_InputMessage	The request WSDL message for the **ApplyShapeOutlineColor WSDL operation**.
IPptEdit_ApplyShapeOutlineColor_OutputMessage	The response WSDL message for the **ApplyShapeOutlineColor** WSDL operation.

3.1.4.3.1.1   IPptEdit_ApplyShapeOutlineColor_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeOutlineColor
```

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

3.1.4.3.1.2   IPptEdit_ApplyShapeOutlineColor_OutputMessage

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

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

3.1.4.3.2 Elements

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

Element	Description
ApplyShapeOutlineColor	The input data for the **ApplyShapeOutlineColor WSDL operation**.
ApplyShapeOutlineColorResponse	The result data for the **ApplyShapeOutlineColor** WSDL operation.

3.1.4.3.2.1   ApplyShapeOutlineColor

The **ApplyShapeOutlineColor** element specifies the input data for the **ApplyShapeOutlineColor** **WSDL operation**.

```
<xs:element name="ApplyShapeOutlineColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
      <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the shape that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

RGBColor: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the red, green, and blue components of the color. This element MAY be present.

themeColor: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies a preset theme color. This element is ignored if the RGBColor element is present.

colorLuminance: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the luminance of the color.

fTintColor: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies if the color is a tint.

3.1.4.3.2.2   ApplyShapeOutlineColorResponse

The **ApplyShapeOutlineColorResponse** element specifies the result data for the **ApplyShapeOutlineColor** **WSDL operation**.

```
<xs:element name="ApplyShapeOutlineColorResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineColorResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeOutlineColorResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.3.3 Complex Types

None.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 ApplyShapeOutlineDashStyle

The **ApplyShapeOutlineDashStyle** operation SHOULD<73> be used to modify the dash type of the outline of a **shape**.

The following is the **WSDL** port type specification of the **ApplyShapeOutlineDashStyle WSDL operation**.

```
<wsdl:operation name="ApplyShapeOutlineDashStyle"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle"
message="tns4:IPptEdit ApplyShapeOutlineDashStyle InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineDashStyleResponse"
message="tns4:IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeOutlineDashStyle_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage** 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
IPptEdit_ApplyShapeOutlineDashStyle_InputMessage	The request WSDL message for the **ApplyShapeOutlineDashStyle WSDL operation**.
IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage	The response WSDL message for the **ApplyShapeOutlineDashStyle** WSDL operation.

3.1.4.4.1.1   IPptEdit_ApplyShapeOutlineDashStyle_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeOutlineDashStyle
```

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

3.1.4.4.1.2   IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage

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

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

3.1.4.4.2 Elements

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

Element	Description
ApplyShapeOutlineDashStyle	The input data for the **ApplyShapeOutlineDashStyle WSDL operation**.
ApplyShapeOutlineDashStyleResponse	The result data for the **ApplyShapeOutlineDashStyle** WSDL operation.

3.1.4.4.2.1   ApplyShapeOutlineDashStyle

The **ApplyShapeOutlineDashStyle** element specifies the input data for the **ApplyShapeOutlineDashStyle WSDL operation**.

```
<xs:element name="ApplyShapeOutlineDashStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="dashType" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

dashType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the dash type.

Value	Meaning
0x00	Solid.

Value	Meaning
0x01	Round dot.
0x02	Square dot.
0x03	Dash.
0x04	Dash dot.
0x05	Long dash.
0x06	Long dash dot.
0x07	Long dash dot dot.

3.1.4.4.2.2   ApplyShapeOutlineDashStyleResponse

The **ApplyShapeOutlineDashStyleResponse** element specifies the result data for the
ApplyShapeOutlineDashStyle WSDL operation.

```
<xs:element name="ApplyShapeOutlineDashStyleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeOutlineDashStyleResult: A **ServiceResult** (section 2.2.4.43) that specifies the result
of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.4.3 Complex Types

None.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 ApplyShapeOutlineEndStyle

The **ApplyShapeOutlineEndStyle** operation SHOULD<74> be used to modify the end style of a line in a **presentation**.

The following is the **WSDL** port type specification of the **ApplyShapeOutlineEndStyle WSDL operation**.

```
<wsdl:operation name="ApplyShapeOutlineEndStyle"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle"
message="tns4:IPptEdit ApplyShapeOutlineEndStyle InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineEndStyleResponse"
message="tns4:IPptEdit ApplyShapeOutlineEndStyle OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeOutlineEndStyle_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage** response message.

3.1.4.5.1 Messages

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

Message	Description
IPptEdit_ApplyShapeOutlineEndStyle_InputMessage	The request WSDL message for the **ApplyShapeOutlineEndStyle WSDL operation**.
IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage	The response WSDL message for the **ApplyShapeOutlineEndStyle** WSDL operation.

3.1.4.5.1.1　IPptEdit_ApplyShapeOutlineEndStyle_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeOutlineEndStyle
```

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

3.1.4.5.1.2　IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage

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

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

3.1.4.5.2 Elements

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

Element	Description
ApplyShapeOutlineEndStyle	The input data for the **ApplyShapeOutlineEndStyle WSDL operation**.
ApplyShapeOutlineEndStyleResponse	The result data for the **ApplyShapeOutlineEndStyle** WSDL operation.

3.1.4.5.2.1   ApplyShapeOutlineEndStyle

The **ApplyShapeOutlineEndStyle** element specifies the input data for the **ApplyShapeOutlineEndStyle WSDL operation**.

```
<xs:element name="ApplyShapeOutlineEndStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="headEndType" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="tailEndType" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the line that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the line that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the line that is being modified.

headEndType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the end style for the head of the line.

Value	Meaning
0x00	None.
0x01	Triangle.
0x02	Arrow.
0x03	Stealth.
0x04	Diamond.
0x05	Oval.

tailEndType: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the end style for the tail of the line.

Value	Meaning
0x00	None.
0x01	Triangle.
0x02	Arrow.
0x03	Stealth.
0x04	Diamond.
0x05	Oval.

3.1.4.5.2.2   ApplyShapeOutlineEndStyleResponse

The **ApplyShapeOutlineEndStyleResponse** element specifies the result data for the **ApplyShapeOutlineEndStyle WSDL operation**.

```
<xs:element name="ApplyShapeOutlineEndStyleResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeOutlineEndStyleResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 ApplyShapeOutlineWidth

The **ApplyShapeOutlineWidth** operation SHOULD<75> be used to modify the width of the outline of a **shape**.

The following is the **WSDL** port type specification of the **ApplyShapeOutlineWidth WSDL operation**.

```
<wsdl:operation name="ApplyShapeOutlineWidth" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineWidth"
message="tns4:IPptEdit_ApplyShapeOutlineWidth_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineWidthResponse"
message="tns4:IPptEdit_ApplyShapeOutlineWidth_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeOutlineWidth_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeOutlineWidth_OutputMessage** response message.

3.1.4.6.1 Messages

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

Message	Description
IPptEdit_ApplyShapeOutlineWidth_InputMessage	The request WSDL message for the **ApplyShapeOutlineWidth WSDL operation**.
IPptEdit_ApplyShapeOutlineWidth_OutputMessage	The response WSDL message for the **ApplyShapeOutlineWidth** WSDL operation.

3.1.4.6.1.1 IPptEdit_ApplyShapeOutlineWidth_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeOutlineWidth
```

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

3.1.4.6.1.2 IPptEdit_ApplyShapeOutlineWidth_OutputMessage

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

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

3.1.4.6.2 Elements

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

Element	Description
ApplyShapeOutlineWidth	The input data for the **ApplyShapeOutlineWidth WSDL operation**.
ApplyShapeOutlineWidthResponse	The result data for the **ApplyShapeOutlineWidth** WSDL operation.

3.1.4.6.2.1   ApplyShapeOutlineWidth

The **ApplyShapeOutlineWidth** element specifies the input data for the **ApplyShapeOutlineWidth WSDL operation**.

```
<xs:element name="ApplyShapeOutlineWidth" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="width" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

width: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the width of the outline in points. The value MUST be greater than zero and less than or equal to 1584.

3.1.4.6.2.2   ApplyShapeOutlineWidthResponse

The **ApplyShapeOutlineWidthResponse** element specifies the result data for the **ApplyShapeOutlineWidth WSDL operation**.

```
<xs:element name="ApplyShapeOutlineWidthResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineWidthResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeOutlineWidthResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.6.3 Complex Types

None.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 ApplyShapeStyle

The **ApplyShapeStyle** operation SHOULD<76> be used to apply a style to a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ApplyShapeStyle WSDL operation**.

```
<wsdl:operation name="ApplyShapeStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyle"
message="tns4:IPptEdit_ApplyShapeStyle_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyleResponse"
message="tns4:IPptEdit_ApplyShapeStyle_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyShapeStyle_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyShapeStyle_OutputMessage** response message.

3.1.4.7.1 Messages

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

Message	Description
IPptEdit_ApplyShapeStyle_InputMessage	The request WSDL message for the **ApplyShapeStyle WSDL operation**.
IPptEdit_ApplyShapeStyle_OutputMessage	The response WSDL message for the **ApplyShapeStyle** WSDL operation.

3.1.4.7.1.1   IPptEdit_ApplyShapeStyle_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyShapeStyle
```

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

3.1.4.7.1.2   IPptEdit_ApplyShapeStyle_OutputMessage

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

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

3.1.4.7.2 Elements

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

Element	Description
ApplyShapeStyle	The input data for the **ApplyShapeStyle WSDL operation**.
ApplyShapeStyleResponse	The result data for the **ApplyShapeStyle** WSDL operation.

3.1.4.7.2.1   ApplyShapeStyle

The **ApplyShapeStyle** element specifies the input data for the **ApplyShapeStyle WSDL operation**.

```
<xs:element name="ApplyShapeStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="styleId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

styleId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the style. The value MUST be greater than or equal to zero and less than 42.

3.1.4.7.2.2   ApplyShapeStyleResponse

The **ApplyShapeStyleResponse** element specifies the result data for the **ApplyShapeStyle WSDL operation**.

```
<xs:element name="ApplyShapeStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyShapeStyleResult: A **ServiceResult** (section 2.2.4.43) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23) element.

3.1.4.7.3 Complex Types

None.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.4.8 ApplyTheme

The **ApplyTheme** operation SHOULD<77> be used to change the theme applied to a presentation.

The following is the **WSDL** port type specification of the **ApplyTheme WSDL operation**.

```
<wsdl:operation name="ApplyTheme" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyTheme" message="tns4:IPptEdit_ApplyTheme_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyThemeResponse"
message="tns4:IPptEdit_ApplyTheme_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ApplyTheme_InputMessage** request message, and the protocol server responds with an **IPptEdit_ApplyTheme_OutputMessage** response message.

3.1.4.8.1 Messages

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

Message	Description
IPptEdit_ApplyTheme_InputMessage	The request WSDL message for the **ApplyTheme WSDL operation**.
IPptEdit_ApplyTheme_OutputMessage	The response WSDL message for the **ApplyTheme** WSDL operation.

3.1.4.8.1.1   IPptEdit_ApplyTheme_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ApplyTheme
```

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

3.1.4.8.1.2   IPptEdit_ApplyTheme_OutputMessage

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

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

3.1.4.8.2 Elements

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

Element	Description
ApplyTheme	The input data for the **ApplyTheme WSDL operation**.
ApplyThemeResponse	The result data for the **ApplyTheme** WSDL operation.

3.1.4.8.2.1   ApplyTheme

The **ApplyTheme** element specifies the input data for the **ApplyTheme WSDL operation**.

```
<xs:element name="ApplyTheme" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="themeFamilyId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="variantIndex" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.

themeFamilyId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **theme** to be applied to the presentation.

variantIndex: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the theme variant to be applied to the presentation.

3.1.4.8.2.2   ApplyThemeResponse

The **ApplyThemeResponse** element specifies the result data for the **ApplyTheme WSDL operation**.

```
<xs:element name="ApplyThemeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyThemeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ApplyThemeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.8.3 Complex Types

None.

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9   ArrangeShape

The **ArrangeShape** operation SHOULD<78> be used to rearrange a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ArrangeShape WSDL operation**.

```
<wsdl:operation name="ArrangeShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/ArrangeShape"
message="tns4:IPptEdit_ArrangeShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShapeResponse"
message="tns4:IPptEdit_ArrangeShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ArrangeShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_ArrangeShape_OutputMessage** response message.

3.1.4.9.1 Messages

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

Message	Description
IPptEdit_ArrangeShape_InputMessage	The request WSDL message for the **ArrangeShape WSDL operation**.
IPptEdit_ArrangeShape_OutputMessage	The response WSDL message for the **ArrangeShape** WSDL operation.

3.1.4.9.1.1   IPptEdit_ArrangeShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ArrangeShape
```

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

3.1.4.9.1.2   IPptEdit_ArrangeShape_OutputMessage

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

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

3.1.4.9.2 Elements

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

Element	Description
ArrangeShape	The input data for the **ArrangeShape WSDL operation**.
ArrangeShapeResponse	The result data for the **ArrangeShape** WSDL operation.

3.1.4.9.2.1 ArrangeShape

The **ArrangeShape** element specifies the input data for the **ArrangeShape WSDL operation**.

```
<xs:element name="ArrangeShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="orderMode" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

orderMode: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies how to rearrange the shape.

Value	Description
0x0	Bring the shape to the front, in front of all other shapes.
0x1	Bring the shape towards the front by one position.
0x2	Send the shape to the back, behind all other shapes.
0x3	Send the shape toward the back by one position.

3.1.4.9.2.2 ArrangeShapeResponse

The **ArrangeShapeResponse** element specifies the result data for the **ArrangeShape WSDL operation**.

```
<xs:element name="ArrangeShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ArrangeShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ArrangeShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.9.3 Complex Types

None.

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10   ChangeLayout

The **ChangeLayout** operation is used to change the layout of a slide.

The following is the **WSDL** port type specification of the **ChangeLayout WSDL operation**.

```
<wsdl:operation name="ChangeLayout" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeLayout"
message="tns4:IPptEdit_ChangeLayout_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeLayoutResponse"
message="tns4:IPptEdit_ChangeLayout_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ChangeLayout_InputMessage** request message, and the protocol server responds with an **IPptEdit_ChangeLayout_OutputMessage** response message.

3.1.4.10.1   Messages

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

Message	Description
IPptEdit_ChangeLayout_InputMessage	The request WSDL message for the **ChangeLayout WSDL operation**.
IPptEdit_ChangeLayout_OutputMessage	The response WSDL message for the **ChangeLayout** WSDL operation.

3.1.4.10.1.1 IPptEdit_ChangeLayout_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ChangeLayout
```

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

3.1.4.10.1.2 IPptEdit_ChangeLayout_OutputMessage

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

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

3.1.4.10.2   Elements

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

Element	Description
ChangeLayout	The input data for the **ChangeLayout WSDL operation**.
ChangeLayoutResponse	The result data for the **ChangeLayout** WSDL operation.

3.1.4.10.2.1 ChangeLayout

The **ChangeLayout** element specifies the input data for the **ChangeLayout WSDL operation**.

```
<xs:element name="ChangeLayout" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

mainMasterId: An **ST_SlideMasterId** ([ISO/IEC29500-1:2011] section 19.7.16) that specifies the identifier for the **main master slide** of the presentation slide.

contentMasterId: An **ST_SlideLayoutId** ([ISO/IEC29500-1:2011] section 19.7.14) that specifies the identifier for the **slide layout** of the presentation slide.

3.1.4.10.2.2 ChangeLayoutResponse

The **ChangeLayoutResponse** element specifies the result data for the **ChangeLayout WSDL operation**.

```
<xs:element name="ChangeLayoutResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
   name="ChangeLayoutResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
</xs:element>
```

ChangeLayoutResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.10.3   Complex Types

None.

3.1.4.10.4   Simple Types

None.

3.1.4.10.5   Attributes

None.

3.1.4.10.6   Groups

None.

3.1.4.10.7   Attribute Groups

None.

3.1.4.11   ChangePictureStyle

The **ChangePictureStyle** operation is used to change the style applied to a picture.

The following is the **WSDL** port type specification of the **ChangePictureStyle WSDL operation**.

```
<wsdl:operation name="ChangePictureStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangePictureStyle"
message="tns4:IPptEdit_ChangePictureStyle_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangePictureStyleResponse"
message="tns4:IPptEdit_ChangePictureStyle_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ChangePictureStyle_InputMessage** request message, and the protocol server responds with an **IPptEdit_ChangePictureStyle_OutputMessage** response message.

3.1.4.11.1   Messages

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

Message	Description
IPptEdit_ChangePictureStyle_InputMessage	The request WSDL message for the **ChangePictureStyle WSDL operation**.
IPptEdit_ChangePictureStyle_OutputMessage	The response WSDL message for the **ChangePictureStyle** WSDL operation.

3.1.4.11.1.1 IPptEdit_ChangePictureStyle_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ChangePictureStyle
```

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

3.1.4.11.1.2 IPptEdit_ChangePictureStyle_OutputMessage

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

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

3.1.4.11.2   Elements

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

Element	Description
ChangePictureStyle	The input data for the **ChangePictureStyle WSDL operation**.
ChangePictureStyleResponse	The result data for the **ChangePictureStyle** WSDL operation.

3.1.4.11.2.1 ChangePictureStyle

The **ChangePictureStyle** element specifies the input data for the **ChangePictureStyle WSDL operation**.

```
<xs:element name="ChangePictureStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="pictureStyleId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the picture.

pictureStyleId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies which style the picture is changed to. The value MUST be greater than or equal to 15505 and less than or equal to 15532.

3.1.4.11.2.2 ChangePictureStyleResponse

The **ChangePictureStyleResponse** element specifies the result data for the **ChangePictureStyle WSDL operation**.

```
<xs:element name="ChangePictureStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangePictureStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ChangePictureStyleResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.11.3   Complex Types

None.

3.1.4.11.4   Simple Types

None.

3.1.4.11.5   Attributes

None.

3.1.4.11.6   Groups

None.

3.1.4.11.7   Attribute Groups

None.

3.1.4.12   ChangeSmartArtColor

The **ChangeSmartArtColor** operation is used to change the color transform applied to a **SmartArt** diagram.

The following is the **WSDL** port type specification of the **ChangeSmartArtColor WSDL operation**.

```
<wsdl:operation name="ChangeSmartArtColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColor"
```

```
message="tns4:IPptEdit_ChangeSmartArtColor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColorResponse"
message="tns4:IPptEdit_ChangeSmartArtColor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ChangeSmartArtColor_InputMessage** request message, and the protocol server responds with an **IPptEdit_ChangeSmartArtColor_OutputMessage** response message.

3.1.4.12.1   Messages

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

Message	Description
IPptEdit_ChangeSmartArtColor_InputMessage	The request WSDL message for the **ChangeSmartArtColor WSDL operation**.
IPptEdit_ChangeSmartArtColor_OutputMessage	The response WSDL message for the **ChangeSmartArtColor** WSDL operation.

3.1.4.12.1.1 IPptEdit_ChangeSmartArtColor_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ChangeSmartArtColor
```

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

3.1.4.12.1.2 IPptEdit_ChangeSmartArtColor_OutputMessage

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

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

3.1.4.12.2   Elements

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

Element	Description
ChangeSmartArtColor	The input data for the **ChangeSmartArtColor WSDL operation**.
ChangeSmartArtColorResponse	The result data for the **ChangeSmartArtColor** WSDL operation.

3.1.4.12.2.1 ChangeSmartArtColor

The **ChangeSmartArtColor** element specifies the input data for the **ChangeSmartArtColor WSDL operation**.

```
<xs:element name="ChangeSmartArtColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="colorTransUri" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** where the color transform of the **SmartArt** diagram is changed, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** where the color transform of the SmartArt diagram is changed.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the SmartArt diagram the color of which is changed.

colorTransUri: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the color transform which is applied to the SmartArt diagram.

category: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the category to which the color transform belongs.

3.1.4.12.2.2 ChangeSmartArtColorResponse

The **ChangeSmartArtColorResponse** element specifies the result data for the **ChangeSmartArtColor WSDL operation**.

```
<xs:element name="ChangeSmartArtColorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtColorResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ChangeSmartArtColorResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.12.3   Complex Types

None.

3.1.4.12.4   Simple Types

None.

3.1.4.12.5   Attributes

None.

3.1.4.12.6   Groups

None.

3.1.4.12.7   Attribute Groups

None.

3.1.4.13   ChangeSmartArtLayout

The **ChangeSmartArtLayout** operation is used to change the layout applied to a **SmartArt** diagram.

The following is the **WSDL** port type specification of the **ChangeSmartArtLayout WSDL operation**.

```
<wsdl:operation name="ChangeSmartArtLayout" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayout"
message="tns4:IPptEdit_ChangeSmartArtLayout_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse"
message="tns4:IPptEdit_ChangeSmartArtLayout_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ChangeSmartArtLayout_InputMessage** request message, and the protocol server responds with an **IPptEdit_ChangeSmartArtLayout_OutputMessage** response message.

3.1.4.13.1   Messages

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

Message	Description
IPptEdit_ChangeSmartArtLayout_InputMessage	The request WSDL message for the **ChangeSmartArtLayout WSDL operation**.
IPptEdit_ChangeSmartArtLayout_OutputMessage	The response WSDL message for the **ChangeSmartArtLayout** WSDL operation.

3.1.4.13.1.1 IPptEdit_ChangeSmartArtLayout_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ChangeSmartArtLayout
```

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

3.1.4.13.1.2 IPptEdit_ChangeSmartArtLayout_OutputMessage

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

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

3.1.4.13.2   Elements

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

Element	Description
ChangeSmartArtLayout	The input data for the **ChangeSmartArtLayout WSDL operation**.
ChangeSmartArtLayoutResponse	The result data for the **ChangeSmartArtLayout** WSDL operation.

3.1.4.13.2.1 ChangeSmartArtLayout

The **ChangeSmartArtLayout** element specifies the input data for the **ChangeSmartArtLayout WSDL operation**.

```
<xs:element name="ChangeSmartArtLayout" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** where the layout of the **SmartArt** diagram is changed, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** where the layout of the SmartArt diagram is changed.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the SmartArt diagram the layout of which is changed.

layoutUri: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the layout which is applied to the SmartArt diagram.

category: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the category to which the layout belongs.

3.1.4.13.2.2 ChangeSmartArtLayoutResponse

The **ChangeSmartArtLayoutResponse** element specifies the result data for the **ChangeSmartArtLayout WSDL operation**.

```
<xs:element name="ChangeSmartArtLayoutResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
   name="ChangeSmartArtLayoutResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
</xs:element>
```

ChangeSmartArtLayoutResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.13.3   Complex Types

None.

3.1.4.13.4   Simple Types

None.

3.1.4.13.5   Attributes

None.

3.1.4.13.6   Groups

None.

3.1.4.13.7   Attribute Groups

None.

3.1.4.14   ChangeSmartArtStyle

The **ChangeSmartArtStyle** operation is used to change the style applied to a **SmartArt** diagram.

The following is the **WSDL** port type specification of the **ChangeSmartArtStyle WSDL operation**.

```
<wsdl:operation name="ChangeSmartArtStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyle"
message="tns4:IPptEdit_ChangeSmartArtStyle_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyleResponse"
message="tns4:IPptEdit_ChangeSmartArtStyle_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ChangeSmartArtStyle_InputMessage** request message, and the protocol server responds with an **IPptEdit_ChangeSmartArtStyle_OutputMessage** response message.

3.1.4.14.1   Messages

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

Message	Description
IPptEdit_ChangeSmartArtStyle_InputMessage	The request WSDL message for the **ChangeSmartArtStyle WSDL operation**.
IPptEdit_ChangeSmartArtStyle_OutputMessage	The response WSDL message for the **ChangeSmartArtStyle** WSDL operation.

3.1.4.14.1.1 IPptEdit_ChangeSmartArtStyle_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ChangeSmartArtStyle
```

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

3.1.4.14.1.2 IPptEdit_ChangeSmartArtStyle_OutputMessage

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

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

3.1.4.14.2   Elements

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

Element	Description
ChangeSmartArtStyle	The input data for the **ChangeSmartArtStyle WSDL operation**.
ChangeSmartArtStyleResponse	The result data for the **ChangeSmartArtStyle** WSDL operation.

3.1.4.14.2.1 ChangeSmartArtStyle

The **ChangeSmartArtStyle** element specifies the input data for the **ChangeSmartArtStyle WSDL operation**.

```
<xs:element name="ChangeSmartArtStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="styleUri" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** where the style of the **SmartArt** diagram is changed, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** where the style of the SmartArt diagram is changed.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the SmartArt diagram the style of which is changed.

styleUri: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the style which is applied to the SmartArt diagram.

category: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the category to which the style belongs.

3.1.4.14.2.2 ChangeSmartArtStyleResponse

The **ChangeSmartArtStyleResponse** element specifies the result data for the **ChangeSmartArtStyle WSDL operation**.

```
<xs:element name="ChangeSmartArtStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ChangeSmartArtStyleResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.14.3   Complex Types

None.

3.1.4.14.4   Simple Types

None.

3.1.4.14.5   Attributes

None.

3.1.4.14.6   Groups

None.

3.1.4.14.7   Attribute Groups

None.

3.1.4.15   ClearPlaceholder

The **ClearPlaceholder** is used to delete a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ClearPlaceholder WSDL operation**.

```
<wsdl:operation name="ClearPlaceholder" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholder"
message="tns4:IPptEdit_ClearPlaceholder_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholderResponse"
message="tns4:IPptEdit_ClearPlaceholder_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ClearPlaceholder_InputMessage** request message, and the protocol server responds with an **IPptEdit_ClearPlaceholder_OutputMessage** response message.

3.1.4.15.1   Messages

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

Message	Description
IPptEdit_ClearPlaceholder_InputMessage	The request WSDL message for the **ClearPlaceholder WSDL operation**.
IPptEdit_ClearPlaceholder_OutputMessage	The response WSDL message for the **ClearPlaceholder** WSDL operation.

3.1.4.15.1.1 IPptEdit_ClearPlaceholder_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ClearPlaceholder
```

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

3.1.4.15.1.2 IPptEdit_ClearPlaceholder_OutputMessage

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

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

3.1.4.15.2   Elements

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

Element	Description
ClearPlaceholder	The input data for the **ClearPlaceholder WSDL operation**.
ClearPlaceholderResponse	The result data for the **ClearPlaceholder** WSDL operation.

3.1.4.15.2.1 ClearPlaceholder

The **ClearPlaceholder** element specifies the input data for the **ClearPlaceholder WSDL operation**.

```
<xs:element name="ClearPlaceholder" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the shape that is deleted, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is deleted.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is deleted.

3.1.4.15.2.2 ClearPlaceholderResponse

The **ClearPlaceholderResponse** element specifies the result data for the **ClearPlaceholder WSDL operation**.

```
<xs:element name="ClearPlaceholderResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ClearPlaceholderResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ClearPlaceholderResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.15.3   Complex Types

None.

3.1.4.15.4   Simple Types

None.

3.1.4.15.5   Attributes

None.

3.1.4.15.6   Groups

None.

3.1.4.15.7   Attribute Groups

None.

3.1.4.16   DeleteComment

The **DeleteComment** operation SHOULD<79> be used to delete a **comment** from a **presentation**.

The following is the **WSDL** port type specification of the **DeleteComment WSDL operation**.

```
<wsdl:operation name="DeleteComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteComment"
message="tns4:IPptEdit_DeleteComment_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteCommentResponse"
message="tns4:IPptEdit_DeleteComment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_DeleteComment_InputMessage** request message, and the protocol server responds with an **IPptEdit_DeleteComment_OutputMessage** response message

3.1.4.16.1   Messages

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

Message	Description
IPptEdit_DeleteComment_InputMessage	The request WSDL message for the **DeleteComment WSDL operation**.
IPptEdit_DeleteComment_OutputMessage	The response WSDL message for the **DeleteComment** WSDL operation.

3.1.4.16.1.1 IPptEdit_DeleteComment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/DeleteComment
```

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

3.1.4.16.1.2 IPptEdit_DeleteComment_OutputMessage

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

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

3.1.4.16.2   Elements

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

Element	Description
DeleteComment	The input data for the **DeleteComment WSDL operation**.
DeleteCommentResponse	The result data for the **DeleteComment** WSDL operation.

3.1.4.16.2.1 DeleteComment

The **DeleteComment** element specifies the input data for the **DeleteComment WSDL operation**.

```
<xs:element name="DeleteComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the **comment** that is being deleted.

authorId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the comment within its author's comments.

3.1.4.16.2.2 DeleteCommentResponse

The **DeleteCommentResponse** element specifies the result data for the **DeleteComment WSDL operation**.

```
<xs:element name="DeleteCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteCommentResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

DeleteCommentResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.16.3   Complex Types

None.

3.1.4.16.4   Simple Types

None.

3.1.4.16.5   Attributes

None.

3.1.4.16.6   Groups

None.

3.1.4.16.7   Attribute Groups

None.

3.1.4.17   DeleteSlide

The **DeleteSlide** operation is used to delete a **presentation slide** from a **presentation**.

The following is the **WSDL** port type specification of the **DeleteSlide WSDL operation**.

```
<wsdl:operation name="DeleteSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlide" message="tns4:IPptEdit_DeleteSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlideResponse"
message="tns4:IPptEdit_DeleteSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_DeleteSlide_InputMessage** request message, and the protocol server responds with an **IPptEdit_DeleteSlide_OutputMessage** response message.

3.1.4.17.1   Messages

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

Message	Description
IPptEdit_DeleteSlide_InputMessage	The request WSDL message for the **DeleteSlide WSDL operation**.
IPptEdit_DeleteSlide_OutputMessage	The response WSDL message for the **DeleteSlide** WSDL operation.

3.1.4.17.1.1   IPptEdit_DeleteSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/DeleteSlide
```

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

3.1.4.17.1.2 IPptEdit_DeleteSlide_OutputMessage

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

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

3.1.4.17.2   Elements

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

Element	Description
DeleteSlide	The input data for the **DeleteSlide WSDL operation**.
DeleteSlideResponse	The result data for the **DeleteSlide** WSDL operation.

3.1.4.17.2.1 DeleteSlide

The **DeleteSlide** element specifies the input data for the **DeleteSlide WSDL operation**.

```
<xs:element name="DeleteSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** to delete.

3.1.4.17.2.2 DeleteSlideResponse

The **DeleteSlideResponse** element specifies the result data for the **DeleteSlide WSDL operation**.

```
<xs:element name="DeleteSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

DeleteSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.17.3 Complex Types

None.

3.1.4.17.4 Simple Types

None.

3.1.4.17.5 Attributes

None.

3.1.4.17.6 Groups

None.

3.1.4.17.7 Attribute Groups

None.

3.1.4.18 DuplicateShape

The **DuplicateShape** operation SHOULD<80> be used to duplicate a **shape** in a presentation.

The following is the **WSDL** port type specification of the **DuplicateShape WSDL operation**.

```
<wsdl:operation name="DuplicateShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShape"
message="tns4:IPptEdit_DuplicateShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShapeResponse"
message="tns4:IPptEdit_DuplicateShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_DuplicateShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_DuplicateShape_OutputMessage** response message.

3.1.4.18.1 Messages

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

Message	Description
IPptEdit_DuplicateShape_InputMessage	The request WSDL message for the **DuplicateShape WSDL operation**.
IPptEdit_DuplicateShape_OutputMessage	The response WSDL message for the **DuplicateShape** WSDL operation.

3.1.4.18.1.1 IPptEdit_DuplicateShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/DuplicateShape
```

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

3.1.4.18.1.2 IPptEdit_DuplicateShape_OutputMessage

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

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

3.1.4.18.2 Elements

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

Element	Description
DuplicateShape	The input data for the **DuplicateShape WSDL operation**.
DuplicateShapeResponse	The result data for the **DuplicateShape** WSDL operation.

3.1.4.18.2.1 DuplicateShape

The **DuplicateShape** element specifies the input data for the **DuplicateShape WSDL operation**.

```
<xs:element name="DuplicateShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="cloneShapePosX" type="xs:int"/>
      <xs:element minOccurs="0" name="cloneShapePosY" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is duplicated, as specified in section 3.1.4.27.

sourceSlideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that the formatting is copied from.

sourceShapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that the formatting is copied from. The shape MUST NOT be a group, **SmartArt**, table, chart, or ActiveX shape.

destinationSlideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is applied to.

cloneShapePosX: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the x coordinate of the shape that is inserted.

cloneShapePosY: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the y coordinate of the shape that is inserted.

3.1.4.18.2.2 DuplicateShapeResponse

The **DuplicateShapeResponse** element specifies the result data for the **DuplicateShape WSDL operation**.

```
<xs:element name="DuplicateShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

DuplicateShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.18.3   Complex Types

None.

3.1.4.18.4   Simple Types

None.

3.1.4.18.5   Attributes

None.

3.1.4.18.6   Groups

None.

3.1.4.18.7   Attribute Groups

None.

3.1.4.19   DuplicateSlide

The **DuplicateSlide** operation is used to duplicate a **presentation slide**.

The following is the **WSDL** port type specification of the **DuplicateSlide WSDL operation**.

```
<wsdl:operation name="DuplicateSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlide"
message="tns4:IPptEdit_DuplicateSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlideResponse"
message="tns4:IPptEdit_DuplicateSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_DuplicateSlide_InputMessage** request message, and the protocol server responds with an **IPptEdit_DuplicateSlide_OutputMessage** response message.

3.1.4.19.1   Messages

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

Message	Description
IPptEdit_DuplicateSlide_InputMessage	The request WSDL message for the **DuplicateSlide WSDL operation**.
IPptEdit_DuplicateSlide_OutputMessage	The response WSDL message for the **DuplicateSlide** WSDL operation.

3.1.4.19.1.1 IPptEdit_DuplicateSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/DuplicateSlide
```

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

3.1.4.19.1.2 IPptEdit_DuplicateSlide_OutputMessage

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

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

3.1.4.19.2   Elements

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

Element	Description
DuplicateSlide	The input data for the **DuplicateSlide WSDL operation**.
DuplicateSlideResponse	The result data for the **DuplicateSlide** WSDL operation.

3.1.4.19.2.1 DuplicateSlide

The **DuplicateSlide** element specifies the input data for the **DuplicateSlide WSDL operation**.

```
<xs:element name="DuplicateSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

srcId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** to duplicate.

dstId: A **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the presentation slide that precedes the location of the duplicated slide.

3.1.4.19.2.2 DuplicateSlideResponse

The **DuplicateSlideResponse** element specifies the result data for the **DuplicateSlide WSDL operation**.

```
<xs:element name="DuplicateSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

DuplicateSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.19.3 Complex Types

None.

3.1.4.19.4 Simple Types

None.

3.1.4.19.5 Attributes

None.

3.1.4.19.6 Groups

None.

3.1.4.19.7 Attribute Groups

None.

3.1.4.20 EditComment

The **EditComment** operation SHOULD<81> be used to change the contents of a **comment** in a **presentation**

The following is the **WSDL** port type specification of the **EditComment WSDL operation**.

```
<wsdl:operation name="EditComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditComment" message="tns4:IPptEdit_EditComment_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditCommentResponse"
message="tns4:IPptEdit_EditComment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_EditComment_InputMessage** request message, and the protocol server responds with an **IPptEdit_EditComment_OutputMessage** response message.

3.1.4.20.1 Messages

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

Message	Description
IPptEdit_EditComment_InputMessage	The request WSDL message for the **EditComment WSDL operation**.
IPptEdit_EditComment_OutputMessage	The response WSDL message for the **EditComment** WSDL operation.

3.1.4.20.1.1 IPptEdit_EditComment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/EditComment
```

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

3.1.4.20.1.2 IPptEdit_EditComment_OutputMessage

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

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

3.1.4.20.2 Elements

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

Element	Description
EditComment	The input data for the **EditComment WSDL operation**.
EditCommentResponse	The result data for the **EditComment** WSDL operation.

3.1.4.20.2.1 EditComment

The **EditComment** element specifies the input data for the **EditComment WSDL operation**.

```
<xs:element name="EditComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the **comment** that is being modified.

text: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the new contents of the comment.

authorId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the comment within its author's comments.

3.1.4.20.2.2 EditCommentResponse

The **EditCommentResponse** element specifies the result data for the **EditComment WSDL operation**.

```
<xs:element name="EditCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="EditCommentResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

EditCommentResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.20.3   Complex Types

None.

3.1.4.20.4   Simple Types

None.

3.1.4.20.5   Attributes

None.

3.1.4.20.6   Groups

None.

3.1.4.20.7   Attribute Groups

None.

3.1.4.21   FlipShape

The **FlipShape** operation SHOULD<82> be used to flip a **shape** vertically or horizontally in a **presentation**.

The following is the **WSDL** port type specification of the **FlipShape WSDL operation**.

```
<wsdl:operation name="FlipShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/FlipShape" message="tns4:IPptEdit_FlipShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/FlipShapeResponse"
message="tns4:IPptEdit_FlipShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_FlipShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_FlipShape_OutputMessage** response message.

3.1.4.21.1   Messages

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

Message	Description
IPptEdit_FlipShape_InputMessage	The request WSDL message for the **FlipShape WSDL operation**.
IPptEdit_FlipShape_OutputMessage	The response WSDL message for the **FlipShape** WSDL operation.

3.1.4.21.1.1 IPptEdit_FlipShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/FlipShape
```

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

3.1.4.21.1.2 IPptEdit_FlipShape_OutputMessage

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

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

3.1.4.21.2   Elements

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

Element	Description
FlipShape	The input data for the **FlipShape WSDL operation**.
FlipShapeResponse	The result data for the **FlipShape** WSDL operation.

3.1.4.21.2.1 FlipShape

The **FlipShape** element specifies the input data for the **FlipShape WSDL operation**.

```
<xs:element name="FlipShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fHorizontal" type="xs:boolean"/>
      <xs:element minOccurs="0" name="fVertical" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

fHorizontal: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the shape will be flipped horizontally.

fVertical: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the shape will be flipped vertically.

3.1.4.21.2.2 FlipShapeResponse

The **FlipShapeResponse** element specifies the result data for the **FlipShape WSDL operation**.

```
<xs:element name="FlipShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="FlipShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

FlipShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.21.3   Complex Types

None.

3.1.4.21.4   Simple Types

None.

3.1.4.21.5   Attributes

None.

3.1.4.21.6   Groups

None.

3.1.4.21.7   Attribute Groups

None.

3.1.4.22   GetCoauthUpdates

The **GetCoauthUpdates** operation SHOULD<83> be used to retrieve co-authoring state for a **presentation**.

The following is the **WSDL** port type specification of the **GetCoauthUpdates WSDL operation**.

```
<wsdl:operation name="GetCoauthUpdates" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdates"
message="tns4:IPptEdit_GetCoauthUpdates_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdatesResponse"
message="tns4:IPptEdit_GetCoauthUpdates_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_GetCoauthUpdates_InputMessage** request message, and the protocol server responds with an **IPptEdit_GetCoauthUpdates_OutputMessage** response message.

3.1.4.22.1   Messages

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

Message	Description
IPptEdit_GetCoauthUpdates_InputMessage	The request WSDL message for the **GetCoauthUpdates WSDL operation**.
IPptEdit_GetCoauthUpdates_OutputMessage	The response WSDL message for the **GetCoauthUpdates** WSDL operation.

3.1.4.22.1.1 IPptEdit_GetCoauthUpdates_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetCoauthUpdates
```

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

3.1.4.22.1.2 IPptEdit_GetCoauthUpdates_OutputMessage

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

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

3.1.4.22.2 Elements

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

Element	Description
GetCoauthUpdates	The input data for the **GetCoauthUpdates WSDL operation**.
GetCoauthUpdatesResponse	The result data for the **GetCoauthUpdates** WSDL operation.

3.1.4.22.2.1 GetCoauthUpdates

The **GetCoauthUpdates** element specifies the input data for the **GetCoauthUpdates WSDL operation**.

```
<xs:element name="GetCoauthUpdates" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="lastToken" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

lastToken: Reserved. MUST be ignored.

3.1.4.22.2.2 GetCoauthUpdatesResponse

The **GetCoauthUpdatesResponse** element specifies the result data for the **GetCoauthUpdates WSDL operation**.

```
<xs:element name="GetCoauthUpdatesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetCoauthUpdatesResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetCoauthUpdatesResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be a **CoauthUpdate** (section 2.2.4.18).

3.1.4.22.3   Complex Types

None.

3.1.4.22.4   Simple Types

None.

3.1.4.22.5   Attributes

None.

3.1.4.22.6   Groups

None.

3.1.4.22.7   Attribute Groups

None.

3.1.4.23   GetEditPresInfo

The **GetEditPresInfo** operation is used to retrieve information about a **presentation**.

The following is the **WSDL** port type specification of the **GetEditPresInfo WSDL operation**.

```
<wsdl:operation name="GetEditPresInfo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfo"
message="tns4:IPptEdit_GetEditPresInfo_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoResponse"
message="tns4:IPptEdit_GetEditPresInfo_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

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

The protocol client sends an **IPptEdit_GetEditPresInfo_InputMessage** request message, and the protocol server responds with an **IPptEdit_GetEditPresInfo_OutputMessage** response message.

3.1.4.23.1   Messages

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

Message	Description
IPptEdit_GetEditPresInfo_InputMessage	The request WSDL message for the **GetEditPresInfo WSDL operation**.
IPptEdit_GetEditPresInfo_OutputMessage	The response WSDL message for the **GetEditPresInfo** WSDL operation.

3.1.4.23.1.1 IPptEdit_GetEditPresInfo_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetEditPresInfo
```

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

3.1.4.23.1.2 IPptEdit_GetEditPresInfo_OutputMessage

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

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

3.1.4.23.2   Elements

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

Element	Description
GetEditPresInfo	The input data for the **GetEditPresInfo WSDL operation**.
GetEditPresInfoResponse	The result data for the **GetEditPresInfo** WSDL operation.

3.1.4.23.2.1 GetEditPresInfo

The **GetEditPresInfo** element specifies the input data for the **GetEditPresInfo WSDL operation**.

```
<xs:element name="GetEditPresInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="includedEditSlideIndex" type="xs:int"/>
          <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

firstSlideIndex: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the index of the first **presentation slide** for which to retrieve information.

numSlides: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the count of presentation slides for which to retrieve information.

includedEditSlideIndex: Reserved. MUST be ignored.

clientWidth: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the width of the client area.

clientHeight: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the height of the client area.

3.1.4.23.2.2 GetEditPresInfoResponse

The **GetEditPresInfoResponse** element specifies the result data for the **GetEditPresInfo WSDL operation**.

```
    <xs:element name="GetEditPresInfoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
    name="GetEditPresInfoResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
```

GetEditPresInfoResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditPresentationInfo** (section 2.2.4.26).

3.1.4.23.3   Complex Types

None.

3.1.4.23.4   Simple Types

None.

3.1.4.23.5   Attributes

None.

3.1.4.23.6   Groups

None.

3.1.4.23.7   Attribute Groups

None.

3.1.4.24   GetEditPresInfoGetEditSlideById

The **GetEditPresInfoGetEditSlideById** operation SHOULD<84> be used to retrieve information about a **presentation**.

The following is the **WSDL** port type specification of the **GetEditPresInfoGetEditSlideById WSDL operation**.

```
<wsdl:operation name="GetEditPresInfoGetEditSlideById"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage** request message, and the protocol server responds with an **IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage** response message.

3.1.4.24.1   Messages

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

Message	Description
IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage	The request WSDL message for the **GetEditPresInfoGetEditSlideById WSDL operation**.
IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage	The response WSDL message for the **GetEditPresInfoGetEditSlideById** WSDL operation.

3.1.4.24.1.1 IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetEditPresInfoGetEditSlideById
```

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

3.1.4.24.1.2 IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage

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

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

3.1.4.24.2   Elements

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

Element	Description
GetEditPresInfoGetEditSlideById	The input data for the **GetEditPresInfoGetEditSlideById WSDL operation**.
GetEditPresInfoGetEditSlideByIdResponse	The result data for the **GetEditPresInfoGetEditSlideById** WSDL operation.

3.1.4.24.2.1 GetEditPresInfoGetEditSlideById

The **GetEditPresInfoGetEditSlideById** element specifies the input data for the **GetEditPresInfoGetEditSlideById WSDL operation**.

```
<xs:element name="GetEditPresInfoGetEditSlideById"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="includedEditSlideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

firstSlideIndex: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the index of the first **presentation slide** for which to retrieve information.

numSlides: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the count of presentation slides for which to retrieve information.

includedEditSlideId: Reserved. MUST be ignored.

clientWidth: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the width of the client area.

clientHeight: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the height of the client area.

3.1.4.24.2.2 GetEditPresInfoGetEditSlideByIdResponse

The **GetEditPresInfoGetEditSlideByIdResponse** element specifies the result data for the **GetEditPresInfoGetEditSlideById** WSDL operation.

```
<xs:element name="GetEditPresInfoGetEditSlideByIdResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEditPresInfoGetEditSlideByIdResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditPresentationInfo** (section 2.2.4.26).

3.1.4.24.3   Complex Types

None.

3.1.4.24.4   Simple Types

None.

3.1.4.24.5   Attributes

None.

3.1.4.24.6   Groups

None.

3.1.4.24.7   Attribute Groups

None.

3.1.4.25   GetEditPresResources

Reserved. MUST not be called.

The following is the WSDL port type specification of the **GetEditPresResources** WSDL operation.

```
<wsdl:operation name="GetEditPresResources" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresResources"
message="tns4:IPptEdit_GetEditPresResources_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresResourcesResponse"
message="tns4:IPptEdit_GetEditPresResources_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

Reserved. MUST not be called.

3.1.4.25.1   Messages

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

Message	Description
IPptEdit_GetEditPresResources_InputMessage	The request WSDL message for the **GetEditPresResources WSDL operation**.
IPptEdit_GetEditPresResources_OutputMessage	The response WSDL message for the **GetEditPresResources** WSDL operation.

3.1.4.25.1.1   IPptEdit_GetEditPresResources_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetEditPresResources
```

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

3.1.4.25.1.2   IPptEdit_GetEditPresResources_OutputMessage

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

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

3.1.4.25.2   Elements

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

Element	Description
GetEditPresResources	The input data for the **GetEditPresResources WSDL operation**.
GetEditPresResourcesResponse	The result data for the **GetEditPresResources** WSDL operation.

3.1.4.25.2.1   GetEditPresResources

The **GetEditPresResources** element specifies the input data for the **GetEditPresResources WSDL operation**.

```
<xs:element name="GetEditPresResources" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: Reserved. MUST be ignored.

3.1.4.25.2.2 GetEditPresResourcesResponse

The **GetEditPresResourcesResponse** element specifies the result data for the **GetEditPresResources WSDL operation**.

```
<xs:element name="GetEditPresResourcesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresResourcesResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEditPresResourcesResult: Reserved. MUST be ignored.

3.1.4.25.3   Complex Types

None.

3.1.4.25.4   Simple Types

None.

3.1.4.25.5   Attributes

None.

3.1.4.25.6   Groups

None.

3.1.4.25.7   Attribute Groups

None.

3.1.4.26   GetEditSlide

The **GetEditSlide** operation is used to retrieve information about a **presentation slide**.

The following is the **WSDL** port type specification of the **GetEditSlide WSDL operation**.

```
<wsdl:operation name="GetEditSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlide"
message="tns4:IPptEdit_GetEditSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlideResponse"
message="tns4:IPptEdit_GetEditSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_GetEditSlide_InputMessage** request message, and the protocol server responds with an **IPptEdit_GetEditSlide_OutputMessage** response message.

3.1.4.26.1   Messages

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

Message	Description
IPptEdit_GetEditSlide_InputMessage	The request WSDL message for the **GetEditSlide WSDL operation**.
IPptEdit_GetEditSlide_OutputMessage	The response WSDL message for the **GetEditSlide** WSDL operation.

3.1.4.26.1.1 IPptEdit_GetEditSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetEditSlide
```

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

3.1.4.26.1.2 IPptEdit_GetEditSlide_OutputMessage

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

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

3.1.4.26.2   Elements

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

Element	Description
GetEditSlide	The input data for the **GetEditSlide WSDL operation**.
GetEditSlideResponse	The result data for the **GetEditSlide** WSDL operation.

3.1.4.26.2.1 GetEditSlide

The **GetEditSlide** element specifies the input data for the **GetEditSlide WSDL operation**.

```
<xs:element name="GetEditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
```

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

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.

3.1.4.26.2.2 GetEditSlideResponse

The **GetEditSlideResponse** element specifies the result data for the **GetEditSlide WSDL operation**.

```
<xs:element name="GetEditSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetEditSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditSlide** (section 2.2.4.29).

3.1.4.26.3 Complex Types

None.

3.1.4.26.4 Simple Types

None.

3.1.4.26.5 Attributes

None.

3.1.4.26.6 Groups

None.

3.1.4.26.7 Attribute Groups

None.

3.1.4.27 GetPresentationId

The **GetPresentationId** operation is used to retrieve an identifier for a **presentation**.

The following is the **WSDL** port type specification of the **GetPresentationId WSDL operation**.

```
<wsdl:operation name="GetPresentationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationId"
message="tns4:IPptEdit_GetPresentationId_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationIdResponse"
message="tns4:IPptEdit_GetPresentationId_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    </wsdl:operation>
```

The protocol client sends an **IPptEdit_GetPresentationId_InputMessage** request message, and
the protocol server responds with an **IPptEdit_GetPresentationId_OutputMessage** response
message.

3.1.4.27.1   Messages

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

Message	Description
IPptEdit_GetPresentationId_InputMessage	The request WSDL message for the **GetPresentationId WSDL operation**.
IPptEdit_GetPresentationId_OutputMessage	The response WSDL message for the **GetPresentationId** WSDL operation.

3.1.4.27.1.1 IPptEdit_GetPresentationId_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/GetPresentationId
```

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

3.1.4.27.1.2 IPptEdit_GetPresentationId_OutputMessage

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

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

3.1.4.27.2   Elements

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

Element	Description
GetPresentationId	The input data for the **GetPresentationId WSDL operation**.
GetPresentationIdResponse	The result data for the **GetPresentationId** WSDL operation.

3.1.4.27.2.1 GetPresentationId

The **GetPresentationId** element specifies the input data for the **GetPresentationId WSDL operation**.

```
<xs:element name="GetPresentationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="rawDocId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="backendUriOverride" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rawDocId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the **absolute URL** to the **presentation**.

backendUriOverride: Reserved. MUST be ignored.

3.1.4.27.2.2   GetPresentationIdResponse

The **GetPresentationIdResponse** element specifies the result data for the **GetPresentationId WSDL operation**.

```
<xs:element name="GetPresentationIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GetPresentationIdResult" nillable="true"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetPresentationIdResult: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the presentation.

3.1.4.27.3   Complex Types

None.

3.1.4.27.4   Simple Types

None.

3.1.4.27.5   Attributes

None.

3.1.4.27.6   Groups

None.

3.1.4.27.7   Attribute Groups

None.

3.1.4.28   InsertClipart

The **InsertClipart** operation SHOULD<85> be used to insert a picture into a **presentation**.

The following is the **WSDL** port type specification of the **InsertClipart WSDL operation**.

```
<wsdl:operation name="InsertClipart" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipart"
message="tns4:IPptEdit_InsertClipart_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipartResponse"
message="tns4:IPptEdit_InsertClipart_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_InsertClipart_InputMessage** request message, and the protocol server responds with an **IPptEdit_InsertClipart_OutputMessage** response message.

3.1.4.28.1   Messages

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

Message	Description
IPptEdit_InsertClipart_InputMessage	The request WSDL message for the **InsertClipart WSDL operation**.
IPptEdit_InsertClipart_OutputMessage	The response WSDL message for the **InsertClipart** WSDL operation.

3.1.4.28.1.1   IPptEdit_InsertClipart_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/InsertClipart
```

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

3.1.4.28.1.2   IPptEdit_InsertClipart_OutputMessage

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

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

3.1.4.28.2   Elements

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

Element	Description
InsertClipart	The input data for the **InsertClipart WSDL operation**.

Element	Description
InsertClipartResponse	The result data for the **InsertClipart** WSDL operation.

3.1.4.28.2.1 InsertClipart

The **InsertClipart** element specifies the input data for the **InsertClipart WSDL operation**.

```
<xs:element name="InsertClipart" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="assetId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Lcid" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** into which the picture is inserted, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** into which the picture is inserted.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the **placeholder** shape into which the picture is inserted.

assetId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the unique identifier of the picture.

Lcid: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the **language code identifier (LCID)**, as specified in [MS-LCID], of the picture.

alt: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the alternate text for the picture.

3.1.4.28.2.2 InsertClipartResponse

The **InsertClipartResponse** element specifies the result data for the **InsertClipart WSDL operation**.

```
<xs:element name="InsertClipartResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertClipartResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

InsertClipartResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.28.3   Complex Types

None.

3.1.4.28.4   Simple Types

None.

3.1.4.28.5   Attributes

None.

3.1.4.28.6   Groups

None.

3.1.4.28.7   Attribute Groups

None.

3.1.4.29   InsertShape

The **InsertShape** operation SHOULD<86> be used to insert a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **InsertShape WSDL operation**.

```
<wsdl:operation name="InsertShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShape" message="tns4:IPptEdit_InsertShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShapeResponse"
message="tns4:IPptEdit_InsertShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_InsertShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_InsertShape_OutputMessage** response message.

3.1.4.29.1   Messages

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

Message	Description
IPptEdit_InsertShape_InputMessage	The request WSDL message for the **InsertShape WSDL operation**.
IPptEdit_InsertShape_OutputMessage	The response WSDL message for the **InsertShape** WSDL operation.

3.1.4.29.1.1   IPptEdit_InsertShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/InsertShape
```

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

3.1.4.29.1.2 IPptEdit_InsertShape_OutputMessage

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

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

3.1.4.29.2   Elements

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

Element	Description
InsertShape	The input data for the **InsertShape WSDL operation**.
InsertShapeResponse	The result data for the **InsertShape** WSDL operation.

3.1.4.29.2.1 InsertShape

The **InsertShape** element specifies the input data for the **InsertShape WSDL operation**.

```
<xs:element name="InsertShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeType" type="xs:int"/>
      <xs:element minOccurs="0" name="shapeCtrPosX" type="xs:int"/>
      <xs:element minOccurs="0" name="shapeCtrPosY" type="xs:int"/>
      <xs:element minOccurs="0" name="shapeWidth" type="xs:double"/>
      <xs:element minOccurs="0" name="shapeHeight" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.

shapeType: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the type of the **shape** that is inserted.

shapeCtrPosX: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the x coordinate of the shape that is inserted.

shapeCtrPosY: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the y coordinate of the shape that is inserted.

shapeWidth: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the width of the shape that is inserted.

shapeHeight: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the height of the shape that is inserted.

3.1.4.29.2.2   InsertShapeResponse

The **InsertShapeResponse** element specifies the result data for the **InsertShape WSDL operation**.

```
<xs:element name="InsertShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

InsertShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.29.3   Complex Types

None.

3.1.4.29.4   Simple Types

None.

3.1.4.29.5   Attributes

None.

3.1.4.29.6   Groups

None.

3.1.4.29.7   Attribute Groups

None.

3.1.4.30   InsertSlide

The **InsertSlide** operation is used to insert a **presentation slide** into a **presentation**.

The following is the **WSDL** port type specification of the **InsertSlide WSDL operation**.

```
<wsdl:operation name="InsertSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlide" message="tns4:IPptEdit_InsertSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlideResponse"
message="tns4:IPptEdit_InsertSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_InsertSlide_InputMessage** request message, and the protocol server responds with an **IPptEdit_InsertSlide_OutputMessage** response message.

3.1.4.30.1   Messages

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

Message	Description
IPptEdit_InsertSlide_InputMessage	The request WSDL message for the **InsertSlide WSDL operation**.
IPptEdit_InsertSlide_OutputMessage	The response WSDL message for the **InsertSlide** WSDL operation.

3.1.4.30.1.1 IPptEdit_InsertSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/InsertSlide
```

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

3.1.4.30.1.2 IPptEdit_InsertSlide_OutputMessage

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

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

3.1.4.30.2   Elements

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

Element	Description
InsertSlide	The input data for the **InsertSlide WSDL operation**.
InsertSlideResponse	The result data for the **InsertSlide** WSDL operation.

3.1.4.30.2.1 InsertSlide

The **InsertSlide** element specifies the input data for the **InsertSlide WSDL operation**.

```
<xs:element name="InsertSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
    </xs:sequence>
```

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

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

dstId: A **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** that precedes the location of the inserted slide. A value of zero indicates that no presentation slide precedes the location. In this case, the location of the inserted presentation slide will be the first slide of the presentation.

mainMasterId: An **ST_SlideMasterId** ([ISO/IEC29500-1:2011] section 19.7.16) that specifies the identifier for the **main master slide** of the inserted presentation slide.

contentMasterId: An **ST_SlideLayoutId** ([ISO/IEC29500-1:2011] section 19.7.14) that specifies the identifier for the **slide layout** of the inserted presentation slide.

3.1.4.30.2.2 InsertSlideResponse

The **InsertSlideResponse** element specifies the result data for the **InsertSlide WSDL operation**.

```
<xs:element name="InsertSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

InsertSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.30.3   Complex Types

None.

3.1.4.30.4   Simple Types

None.

3.1.4.30.5   Attributes

None.

3.1.4.30.6   Groups

None.

3.1.4.30.7   Attribute Groups

None.

3.1.4.31   InsertSmartArt

The **InsertSmartArt** operation is used to insert a **SmartArt** diagram into a **presentation**

The following is the **WSDL** port type specification of the **InsertSmartArt WSDL operation**.

```
<wsdl:operation name="InsertSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArt"
message="tns4:IPptEdit_InsertSmartArt_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArtResponse"
message="tns4:IPptEdit_InsertSmartArt_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_InsertSmartArt_InputMessage** request message, and the protocol server responds with an **IPptEdit_InsertSmartArt_OutputMessage** response message.

3.1.4.31.1   Messages

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

Message	Description
IPptEdit_InsertSmartArt_InputMessage	The request WSDL message for the **InsertSmartArt WSDL operation**.
IPptEdit_InsertSmartArt_OutputMessage	The response WSDL message for the **InsertSmartArt** WSDL operation.

3.1.4.31.1.1   IPptEdit_InsertSmartArt_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/InsertSmartArt
```

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

3.1.4.31.1.2   IPptEdit_InsertSmartArt_OutputMessage

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

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

3.1.4.31.2   Elements

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

Element	Description
InsertSmartArt	The input data for the **InsertSmartArt WSDL operation**.

Element	Description
InsertSmartArtResponse	The result data for the **InsertSmartArt** WSDL operation.

3.1.4.31.2.1 InsertSmartArt

The **InsertSmartArt** element specifies the input data for the **InsertSmartArt WSDL operation**.

```
<xs:element name="InsertSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** into which the **SmartArt** diagram is inserted, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** into which the SmartArt diagram is inserted.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the **placeholder** shape into which the SmartArt diagram is inserted.

layoutUri: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the layout with which the SmartArt diagram is inserted.

category: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the category to which the layout belongs.

3.1.4.31.2.2 InsertSmartArtResponse

The **InsertSmartArtResponse** element specifies the result data for the **InsertSmartArt WSDL operation**.

```
<xs:element name="InsertSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

InsertSmartArtResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.31.3   Complex Types

None.

---

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3.1.4.31.4   Simple Types

None.

3.1.4.31.5   Attributes

None.

3.1.4.31.6   Groups

None.

3.1.4.31.7   Attribute Groups

None.

3.1.4.32   LogULS

Reserved. MUST not be called.

The following is the **WSDL** port type specification of the **LogULS WSDL operation**.

```
<wsdl:operation name="LogULS" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/LogULS" message="tns4:IPptEdit_LogULS_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/LogULSResponse" message="tns4:IPptEdit_LogULS_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

Reserved. MUST not be called.

3.1.4.32.1   Messages

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

Message	Description
IPptEdit_LogULS_InputMessage	The request WSDL message for the **LogULS WSDL operation**.
IPptEdit_LogULS_OutputMessage	The response WSDL message for the **LogULS** WSDL operation.

3.1.4.32.1.1 IPptEdit_LogULS_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/LogULS
```

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

3.1.4.32.1.2 IPptEdit_LogULS_OutputMessage

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

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

3.1.4.32.2   Elements

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

Element	Description
LogULS	The input data for the **LogULS WSDL operation**.
LogULSResponse	The result data for the **LogULS** WSDL operation.

3.1.4.32.2.1 LogULS

The **LogULS** element specifies the input data for the **LogULS WSDL operation**.

```
<xs:element name="LogULS" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="tagID" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="level" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

tagID: Reserved. MUST be ignored.

level: Reserved. MUST be ignored.

message: Reserved. MUST be ignored.

3.1.4.32.2.2 LogULSResponse

The **LogULSResponse** element specifies the result data for the **LogULS WSDL operation**.

```
<xs:element name="LogULSResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="LogULSResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

LogULSResult: Reserved. MUST be ignored.

3.1.4.32.3   Complex Types

None.

3.1.4.32.4   Simple Types

None.

3.1.4.32.5   Attributes

None.

3.1.4.32.6   Groups

None.

3.1.4.32.7   Attribute Groups

None.

3.1.4.33   MoveComment

The **MoveComment** operation SHOULD<87> be used to change the position of a **comment** in a **presentation**.

The following is the **WSDL** port type specification of the **MoveComment WSDL operation**.

```
<wsdl:operation name="MoveComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveComment" message="tns4:IPptEdit_MoveComment_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveCommentResponse"
message="tns4:IPptEdit_MoveComment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_MoveComment_InputMessage** request message, and the protocol server responds with an **IPptEdit_MoveComment_OutputMessage** response message.

3.1.4.33.1   Messages

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

Message	Description
IPptEdit_MoveComment_InputMessage	The request WSDL message for the **MoveComment WSDL operation**.
IPptEdit_MoveComment_OutputMessage	The response WSDL message for the **MoveComment** WSDL operation.

3.1.4.33.1.1   IPptEdit_MoveComment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/MoveComment
```

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

3.1.4.33.1.2 IPptEdit_MoveComment_OutputMessage

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

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

3.1.4.33.2 Elements

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

Element	Description
MoveComment	The input data for the **MoveComment WSDL operation**.
MoveCommentResponse	The result data for the **MoveComment** WSDL operation.

3.1.4.33.2.1 MoveComment

The **MoveComment** element specifies the input data for the **MoveComment WSDL operation**.

```
<xs:element name="MoveComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="x" type="xs:double"/>
      <xs:element minOccurs="0" name="y" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the **comment** that is being modified.

authorId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the comment within its author's comments.

x: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the new x coordinate of the comment.

y: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the new y coordinate of the comment.

3.1.4.33.2.2 MoveCommentResponse

The **MoveCommentResponse** element specifies the result data for the **MoveComment WSDL operation**.

```
<xs:element name="MoveCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveCommentResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MoveCommentResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.33.3   Complex Types

None.

3.1.4.33.4   Simple Types

None.

3.1.4.33.5   Attributes

None.

3.1.4.33.6   Groups

None.

3.1.4.33.7   Attribute Groups

None.

3.1.4.34   MoveShape

The **MoveShape** operation SHOULD<88> be used to move a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **MoveShape WSDL operation**.

```
<wsdl:operation name="MoveShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveShape" message="tns4:IPptEdit_MoveShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveShapeResponse"
message="tns4:IPptEdit_MoveShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_MoveShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_MoveShape_OutputMessage** response message.

3.1.4.34.1   Messages

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

Message	Description
IPptEdit_MoveShape_InputMessage	The request WSDL message for the **MoveShape WSDL operation**.
IPptEdit_MoveShape_OutputMessage	The response WSDL message for the **MoveShape** WSDL operation.

3.1.4.34.1.1 IPptEdit_MoveShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/MoveShape
```

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

3.1.4.34.1.2 IPptEdit_MoveShape_OutputMessage

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

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

3.1.4.34.2 Elements

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

Element	Description
MoveShape	The input data for the **MoveShape WSDL operation**.
MoveShapeResponse	The result data for the **MoveShape** WSDL operation.

3.1.4.34.2.1 MoveShape

The **MoveShape** element specifies the input data for the **MoveShape WSDL operation**.

```
<xs:element name="MoveShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="x" type="xs:double"/>
      <xs:element minOccurs="0" name="y" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

x: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the new x coordinate of the shape.

y: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies the new y coordinate of the shape.

3.1.4.34.2.2 MoveShapeResponse

The **MoveShapeResponse** element specifies the result data for the **MoveShape WSDL operation**.

```
<xs:element name="MoveShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MoveShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.34.3 Complex Types

None.

3.1.4.34.4 Simple Types

None.

3.1.4.34.5 Attributes

None.

3.1.4.34.6 Groups

None.

3.1.4.34.7 Attribute Groups

None.

3.1.4.35 MoveSlide

The **MoveSlide** operation is used to move a **presentation slide** in a **presentation**.

The following is the **WSDL** port type specification of the **MoveSlide WSDL operation**.

```
<wsdl:operation name="MoveSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/MoveSlide" message="tns4:IPptEdit_MoveSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlideResponse"
message="tns4:IPptEdit_MoveSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_MoveSlide_InputMessage** request message, and the
protocol server responds with an **IPptEdit_MoveSlide_OutputMessage** response message.

3.1.4.35.1   Messages

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

Message	Description
IPptEdit_MoveSlide_InputMessage	The request WSDL message for the **MoveSlide WSDL operation**.
IPptEdit_MoveSlide_OutputMessage	The response WSDL message for the **MoveSlide** WSDL operation.

3.1.4.35.1.1 IPptEdit_MoveSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/MoveSlide
```

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

3.1.4.35.1.2 IPptEdit_MoveSlide_OutputMessage

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

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

3.1.4.35.2   Elements

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

Element	Description
MoveSlide	The input data for the **MoveSlide WSDL operation**.
MoveSlideResponse	The result data for the **MoveSlide** WSDL operation.

3.1.4.35.2.1 MoveSlide

The **MoveSlide** element specifies the input data for the **MoveSlide WSDL operation**.

```
<xs:element name="MoveSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the slide that is moved, as specified in section 3.1.4.27.

srcId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** that is moved.

dstId: A value of zero or an **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the presentation slide that precedes the new location of the moved slide. A value of zero indicates that no presentation slide precedes the new location. In this case, the new location of the moved presentation slide is the first slide of the presentation.

3.1.4.35.2.2 MoveSlideResponse

The **MoveSlideResponse** element specifies the result data for the **MoveSlide WSDL operation**.

```
<xs:element name="MoveSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

MoveSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.35.3   Complex Types

None.

3.1.4.35.4   Simple Types

None.

3.1.4.35.5   Attributes

None.

3.1.4.35.6   Groups

None.

3.1.4.35.7   Attribute Groups

None.

3.1.4.36 PastePicture

The **PastePicture** operation is used to paste a picture into a **presentation**.

The following is the **WSDL** port type specification of the **PastePicture WSDL operation**.

```
<wsdl:operation name="PastePicture" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PastePicture"
message="tns4:IPptEdit_PastePicture_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PastePictureResponse"
message="tns4:IPptEdit_PastePicture_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_PastePicture_InputMessage** request message, and the protocol server responds with an **IPptEdit_PastePicture_OutputMessage** response message

3.1.4.36.1 Messages

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

Message	Description
IPptEdit_PastePicture_InputMessage	The request WSDL message for the **PastePicture WSDL operation**.
IPptEdit_PastePicture_OutputMessage	The response WSDL message for the **PastePicture** WSDL operation.

3.1.4.36.1.1 IPptEdit_PastePicture_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/PastePicture
```

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

3.1.4.36.1.2 IPptEdit_PastePicture_OutputMessage

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

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

3.1.4.36.2 Elements

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

Element	Description
PastePicture	The input data for the **PastePicture WSDL operation**.
PastePictureResponse	The result data for the **PastePicture** WSDL operation.

3.1.4.36.2.1 PastePicture

The **PastePicture** element specifies the input data for the **PastePicture WSDL operation**.

```
<xs:element name="PastePicture" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** into which the picture is inserted, as specified in section 3.1.4.27.

slideId: slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** into which the picture is inserted.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the **placeholder** shape into which the picture is inserted.

url: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the location of the picture.

alt: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the alternate text for the picture.

3.1.4.36.2.2 PastePictureResponse

The **PastePictureResponse** element specifies the result data for the **PastePicture WSDL operation**.

```
<xs:element name="PastePictureResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PastePictureResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

PastePictureResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.36.3   Complex Types

None.

3.1.4.36.4   Simple Types

None.

3.1.4.36.5   Attributes

None.

3.1.4.36.6   Groups

None.

3.1.4.36.7   Attribute Groups

None.

3.1.4.37   Print

A **Print** operation SHOULD<89> be used to print a **presentation**.

The following is the **WSDL** port type specification of the **Print WSDL operation**.

```
<wsdl:operation name="Print" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Print" message="tns4:IPptEdit_Print_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PrintResponse" message="tns4:IPptEdit_Print_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_Print_InputMessage** request message, and the protocol server responds with an **IPptEdit_Print_OutputMessage** response message.

3.1.4.37.1   Messages

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

Message	Description
IPptEdit_Print_InputMessage	The request WSDL message for the **Print WSDL operation**.
IPptEdit_Print_OutputMessage	The response WSDL message for the **Print** WSDL operation.

3.1.4.37.1.1 IPptEdit_Print_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/Print
```

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

3.1.4.37.1.2 IPptEdit_Print_OutputMessage

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

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

3.1.4.37.2   Elements

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

Element	Description
Print	The input data for the **Print WSDL operation**.
PrintResponse	The result data for the **Print** WSDL operation.

3.1.4.37.2.1 Print

The **Print** element specifies the input data for the **Print WSDL operation**.

```
<xs:element name="Print" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** to print, as specified in section 3.1.4.27.

3.1.4.37.2.2 PrintResponse

The **PrintResponse** element specifies the result data for the **Print WSDL operation**.

```
<xs:element name="PrintResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PrintResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

PrintResult: A **PptViewingService.PrintResult** (section 2.2.4.39) that specifies the result of the operation.

3.1.4.37.3   Complex Types

None.

3.1.4.37.4   Simple Types

None.

3.1.4.37.5   Attributes

None.

3.1.4.37.6   Groups

None.

3.1.4.37.7   Attribute Groups

None.

3.1.4.38   Redo

The **Redo** operation is used to redo the last operation in a **presentation** that is undone.

The following is the **WSDL** port type specification of the **Redo WSDL operation**.

```
<wsdl:operation name="Redo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Redo" message="tns4:IPptEdit_Redo_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RedoResponse" message="tns4:IPptEdit_Redo_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_Redo_InputMessage** request message, and the protocol server responds with an **IPptEdit_Redo_OutputMessage** response message.

3.1.4.38.1   Messages

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

Message	Description
IPptEdit_Redo_InputMessage	The request WSDL message for the **Redo WSDL operation**.
IPptEdit_Redo_OutputMessage	The response WSDL message for the **Redo** WSDL operation.

3.1.4.38.1.1   IPptEdit_Redo_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/Redo
```

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

3.1.4.38.1.2   IPptEdit_Redo_OutputMessage

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

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

3.1.4.38.2 Elements

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

Element	Description
Redo	The input data for the **Redo WSDL operation**.
RedoResponse	The result data for the **Redo** WSDL operation.

3.1.4.38.2.1 Redo

The **Redo** element specifies the input data for the **Redo WSDL operation**.

```
<xs:element name="Redo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

3.1.4.38.2.2 RedoResponse

The **RedoResponse** element specifies the result data for the **Redo WSDL operation**.

```
<xs:element name="RedoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RedoResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RedoResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.38.3 Complex Types

None.

3.1.4.38.4 Simple Types

None.

3.1.4.38.5 Attributes

None.

3.1.4.38.6   Groups

None.

3.1.4.38.7   Attribute Groups

None.

3.1.4.39   RemoveShapeFill

The **RemoveShapeFill** operation SHOULD<90> be used to remove the color of a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **RemoveShapeFill WSDL operation**.

```
<wsdl:operation name="RemoveShapeFill" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFill"
message="tns4:IPptEdit_RemoveShapeFill_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFillResponse"
message="tns4:IPptEdit_RemoveShapeFill_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_RemoveShapeFill_InputMessage** request message, and the protocol server responds with an **IPptEdit_RemoveShapeFill_OutputMessage** response message.

3.1.4.39.1   Messages

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

Message	Description
IPptEdit_RemoveShapeFill_InputMessage	The request WSDL message for the **RemoveShapeFill WSDL operation**.
IPptEdit_RemoveShapeFill_OutputMessage	The response WSDL message for the **RemoveShapeFill** WSDL operation.

3.1.4.39.1.1 IPptEdit_RemoveShapeFill_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/RemoveShapeFill
```

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

3.1.4.39.1.2 IPptEdit_RemoveShapeFill_OutputMessage

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

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

3.1.4.39.2   Elements

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

Element	Description
RemoveShapeFill	The input data for the **RemoveShapeFill WSDL operation**.
RemoveShapeFillResponse	The result data for the **RemoveShapeFill** WSDL operation.

3.1.4.39.2.1 RemoveShapeFill

The **RemoveShapeFill** element specifies the input data for the **RemoveShapeFill WSDL operation**.

```
<xs:element name="RemoveShapeFill" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

3.1.4.39.2.2 RemoveShapeFillResponse

The **RemoveShapeFillResponse** element specifies the result data for the **RemoveShapeFill WSDL operation**.

```
<xs:element name="RemoveShapeFillResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RemoveShapeFillResult: A **ServiceResult** (section 2.2.4.43) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23) element.

3.1.4.39.3 Complex Types

None.

3.1.4.39.4 Simple Types

None.

3.1.4.39.5 Attributes

None.

3.1.4.39.6 Groups

None.

3.1.4.39.7 Attribute Groups

None.

3.1.4.40 RemoveShapeOutline

The **RemoveShapeOutline** operation SHOULD<91> be used to remove the outline of a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **RemoveShapeOutline WSDL operation**.

```
<wsdl:operation name="RemoveShapeOutline" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeOutline"
message="tns4:IPptEdit_RemoveShapeOutline_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeOutlineResponse"
message="tns4:IPptEdit_RemoveShapeOutline_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_RemoveShapeOutline_InputMessage** request message, and the protocol server responds with an **IPptEdit_RemoveShapeOutline_OutputMessage** response message.

3.1.4.40.1 Messages

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

Message	Description
IPptEdit_RemoveShapeOutline_InputMessage	The request WSDL message for the **RemoveShapeOutline WSDL operation**.
IPptEdit_RemoveShapeOutline_OutputMessage	The response WSDL message for the **RemoveShapeOutline** WSDL operation.

3.1.4.40.1.1 IPptEdit_RemoveShapeOutline_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/RemoveShapeOutline
```

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

3.1.4.40.1.2 IPptEdit_RemoveShapeOutline_OutputMessage

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

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

3.1.4.40.2   Elements

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

Element	Description
RemoveShapeOutline	The input data for the **RemoveShapeOutline WSDL operation**.
RemoveShapeOutlineResponse	The result data for the **RemoveShapeOutline** WSDL operation.

3.1.4.40.2.1 RemoveShapeOutline

The **RemoveShapeOutline** element specifies the input data for the **RemoveShapeOutline WSDL operation**.

```
<xs:element name="RemoveShapeOutline" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

3.1.4.40.2.2 RemoveShapeOutlineResponse

The **RemoveShapeOutlineResponse** element specifies the result data for the **RemoveShapeOutline WSDL operation**.

```
<xs:element name="RemoveShapeOutlineResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeOutlineResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RemoveShapeOutlineResult: A **ServiceResult** (section 2.2.4.43) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.40.3   Complex Types

None.

3.1.4.40.4   Simple Types

None.

3.1.4.40.5   Attributes

None.

3.1.4.40.6   Groups

None.

3.1.4.40.7   Attribute Groups

None.

3.1.4.41   ReorderAnimation

The **ReorderAnimation** operation SHOULD<92> be used to reorder the animation of a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ReorderAnimation WSDL operation**.

```
<wsdl:operation name="ReorderAnimation" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimation"
message="tns4:IPptEdit_ReorderAnimation_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimationResponse"
message="tns4:IPptEdit_ReorderAnimation_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ReorderAnimation_InputMessage** request message, and the protocol server responds with an **IPptEdit_ReorderAnimation_OutputMessage** response message.

3.1.4.41.1   Messages

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

Message	Description
IPptEdit_ReorderAnimation_InputMessage	The request WSDL message for the **ReorderAnimation WSDL operation**.
IPptEdit_ReorderAnimation_OutputMessage	The response WSDL message for the **ReorderAnimation** WSDL operation.

3.1.4.41.1.1 IPptEdit_ReorderAnimation_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ReorderAnimation
```

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

3.1.4.41.1.2 IPptEdit_ReorderAnimation_OutputMessage

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

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

3.1.4.41.2 Elements

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

Element	Description
ReorderAnimation	The input data for the **ReorderAnimation WSDL operation**.
ReorderAnimationResponse	The result data for the **ReorderAnimation** WSDL operation.

3.1.4.41.2.1 ReorderAnimation

The **ReorderAnimation** element specifies the input data for the **ReorderAnimation WSDL operation**.

```
<xs:element name="ReorderAnimation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fLater" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape. The shape MUST have exactly one effect and that effect MUST exist on the main timeline.

fLater: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether to move the effect earlier or later in the timeline. If this value is true, the effect MUST NOT have the largest **build identifier**. If this value is false, the effect MUST NOT have the smallest build identifier.

3.1.4.41.2.2 ReorderAnimationResponse

The **ReorderAnimationResponse** element specifies the result data for the **ReorderAnimation WSDL operation**.

```
<xs:element name="ReorderAnimationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReorderAnimationResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ReorderAnimationResult: A **ServiceResult** (section 2.2.4.43) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.41.3   Complex Types

None.

3.1.4.41.4   Simple Types

None.

3.1.4.41.5   Attributes

None.

3.1.4.41.6   Groups

None.

3.1.4.41.7   Attribute Groups

None.

3.1.4.42   ReplaceNotes

The **ReplaceNotes** operation is used to replace presentation notes in a **presentation**.

The following is the **WSDL** port type specification of the **ReplaceNotes WSDL operation**.

```
<wsdl:operation name="ReplaceNotes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```
   <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotes"
message="tns4:IPptEdit_ReplaceNotes_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotesResponse"
message="tns4:IPptEdit_ReplaceNotes_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ReplaceNotes_InputMessage** request message, and the protocol server responds with an **IPptEdit_ReplaceNotes_OutputMessage** response message.

3.1.4.42.1   Messages

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

Message	Description
IPptEdit_ReplaceNotes_InputMessage	The request WSDL message for the **ReplaceNotes WSDL operation**.
IPptEdit_ReplaceNotes_OutputMessage	The response WSDL message for the **ReplaceNotes** WSDL operation.

3.1.4.42.1.1 IPptEdit_ReplaceNotes_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ReplaceNotes
```

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

3.1.4.42.1.2 IPptEdit_ReplaceNotes_OutputMessage

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

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

3.1.4.42.2   Elements

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

Element	Description
ReplaceNotes	The input data for the **ReplaceNotes WSDL operation**.
ReplaceNotesResponse	The result data for the **ReplaceNotes** WSDL operation.

3.1.4.42.2.1 ReplaceNotes

The **ReplaceNotes** element specifies the input data for the **ReplaceNotes WSDL operation**.

```
<xs:element name="ReplaceNotes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="newNotes" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the text that is replaced, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the text that is replaced.

newNotes: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the replacement notes.

3.1.4.42.2.2 ReplaceNotesResponse

The **ReplaceNotesResponse** element specifies the result data for the **ReplaceNotes WSDL operation**.

```
<xs:element name="ReplaceNotesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceNotesResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ReplaceNotesResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.42.3   Complex Types

None.

3.1.4.42.4   Simple Types

None.

3.1.4.42.5   Attributes

None.

3.1.4.42.6   Groups

None.

3.1.4.42.7   Attribute Groups

None.

3.1.4.43 ReplaceText

The **ReplaceText** operation is used to replace text in a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ReplaceText WSDL operation**.

```
<wsdl:operation name="ReplaceText" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceText" message="tns4:IPptEdit ReplaceText InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceTextResponse"
message="tns4:IPptEdit ReplaceText OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ReplaceText_InputMessage** request message, and the protocol server responds with an **IPptEdit_ReplaceText_OutputMessage** response message.

3.1.4.43.1 Messages

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

Message	Description
IPptEdit_ReplaceText_InputMessage	The request WSDL message for the **ReplaceText WSDL operation**.
IPptEdit_ReplaceText_OutputMessage	The response WSDL message for the **ReplaceText** WSDL operation.

3.1.4.43.1.1 IPptEdit_ReplaceText_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ReplaceText
```

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

3.1.4.43.1.2 IPptEdit_ReplaceText_OutputMessage

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

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

3.1.4.43.2 Elements

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

Element	Description
ReplaceText	The input data for the **ReplaceText WSDL operation**.
ReplaceTextResponse	The result data for the **ReplaceText** WSDL operation.

3.1.4.43.2.1   ReplaceText

The **ReplaceText** element specifies the input data for the **ReplaceText WSDL operation**.

```
<xs:element name="ReplaceText" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="newText" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="partialEdit" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the text that is replaced, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the text that is replaced.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape containing the text that is replaced.

newText: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the replacement text.

partialEdit: Reserved. MUST be ignored.

3.1.4.43.2.2   ReplaceTextResponse

The **ReplaceTextResponse** element specifies the result data for the **ReplaceText WSDL operation**.

```
<xs:element name="ReplaceTextResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceTextResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ReplaceTextResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.43.3   Complex Types

None.

3.1.4.43.4   Simple Types

None.

3.1.4.43.5 Attributes

None.

3.1.4.43.6 Groups

None.

3.1.4.43.7 Attribute Groups

None.

3.1.4.44 ResetPicture

The **ResetPicture** operation SHOULD<93> be used to remove all customizations on a picture in a **presentation**.

The following is the **WSDL** port type specification of the **ResetPicture WSDL operation**.

```
<wsdl:operation name="ResetPicture" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetPicture"
message="tns4:IPptEdit_ResetPicture_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetPictureResponse"
message="tns4:IPptEdit_ResetPicture_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ResetPicture_InputMessage** request message, and the protocol server responds with an **IPptEdit_ResetPicture_OutputMessage** response message.

3.1.4.44.1 Messages

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

Message	Description
IPptEdit_ResetPicture_InputMessage	The request WSDL message for the **ResetPicture WSDL operation**.
IPptEdit_ResetPicture_OutputMessage	The response WSDL message for the **ResetPicture** WSDL operation.

3.1.4.44.1.1 IPptEdit_ResetPicture_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ResetPicture
```

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

3.1.4.44.1.2 IPptEdit_ResetPicture_OutputMessage

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

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

3.1.4.44.2   Elements

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

Element	Description
ResetPicture	The input data for the **ResetPicture WSDL operation**.
ResetPictureResponse	The result data for the **ResetPicture** WSDL operation.

3.1.4.44.2.1 ResetPicture

The **ResetPicture** element specifies the input data for the **ResetPicture WSDL operation**.

```
<xs:element name="ResetPicture" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: A **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the picture that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the picture that is being modified.

3.1.4.44.2.2 ResetPictureResponse

The **ResetPictureResponse** element specifies the result data for the **ResetPicture WSDL operation**.

```
<xs:element name="ResetPictureResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetPictureResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
```

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

ResetPictureResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.44.3   Complex Types

None.

3.1.4.44.4   Simple Types

None.

3.1.4.44.5   Attributes

None.

3.1.4.44.6   Groups

None.

3.1.4.44.7   Attribute Groups

None.

3.1.4.45   ResetSmartArt

The **ResetSmartArt** operation is used to remove all customizations on a **SmartArt** diagram in a **presentation**.

The following is the **WSDL** port type specification of the **ResetSmartArt WSDL operation**.

```
<wsdl:operation name="ResetSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArt"
message="tns4:IPptEdit ResetSmartArt InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArtResponse"
message="tns4:IPptEdit ResetSmartArt OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ResetSmartArt_InputMessage** request message, and the protocol server responds with an **IPptEdit_ResetSmartArt_OutputMessage** response message.

3.1.4.45.1   Messages

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

Message	Description
IPptEdit_ResetSmartArt_InputMessage	The request WSDL message for the **ResetSmartArt WSDL**

Message	Description
	operation.
IPptEdit_ResetSmartArt_OutputMessage	The response WSDL message for the **ResetSmartArt** WSDL operation.

3.1.4.45.1.1 IPptEdit_ResetSmartArt_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ResetSmartArt
```

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

3.1.4.45.1.2 IPptEdit_ResetSmartArt_OutputMessage

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

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

3.1.4.45.2 Elements

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

Element	Description
ResetSmartArt	The input data for the **ResetSmartArt WSDL operation**.
ResetSmartArtResponse	The result data for the **ResetSmartArt** WSDL operation.

3.1.4.45.2.1 ResetSmartArt

The **ResetSmartArt** element specifies the input data for the **ResetSmartArt WSDL operation**.

```
<xs:element name="ResetSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **SmartArt** diagram that is reset, as specified in section 3.1.4.27.

slideId: A **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the SmartArt diagram that is reset.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the SmartArt diagram that is reset.

3.1.4.45.2.2 ResetSmartArtResponse

The **ResetSmartArtResponse** element specifies the result data for the **ResetSmartArt WSDL operation**.

```
<xs:element name="ResetSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ResetSmartArtResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.45.3   Complex Types

None.

3.1.4.45.4   Simple Types

None.

3.1.4.45.5   Attributes

None.

3.1.4.45.6   Groups

None.

3.1.4.45.7   Attribute Groups

None.

3.1.4.46   ResizeShape

The **ResizeShape** operation SHOULD<94> be used to resize a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **ResizeShape WSDL operation**.

```
<wsdl:operation name="ResizeShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResizeShape" message="tns4:IPptEdit_ResizeShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResizeShapeResponse"
message="tns4:IPptEdit_ResizeShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ResizeShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_ResizeShape_OutputMessage** response message.

3.1.4.46.1   Messages

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

Message	Description
IPptEdit_ResizeShape_InputMessage	The request WSDL message for the **ResizeShape WSDL operation**.
IPptEdit_ResizeShape_OutputMessage	The response WSDL message for the **ResizeShape** WSDL operation.

3.1.4.46.1.1 IPptEdit_ResizeShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ResizeShape
```

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

3.1.4.46.1.2 IPptEdit_ResizeShape_OutputMessage

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

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

3.1.4.46.2   Elements

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

Element	Description
ResizeShape	The input data for the **ResizeShape WSDL operation**.
ResizeShapeResponse	The result data for the **ResizeShape** WSDL operation.

3.1.4.46.2.1 ResizeShape

The **ResizeShape** element specifies the input data for the **ResizeShape WSDL operation**.

```
<xs:element name="ResizeShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
```

```
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="deltaNorth" type="xs:double"/>
      <xs:element minOccurs="0" name="deltaSouth" type="xs:double"/>
      <xs:element minOccurs="0" name="deltaWest" type="xs:double"/>
      <xs:element minOccurs="0" name="deltaEast" type="xs:double"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

deltaNorth: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the y coordinate of the line is offset by this value. Else the north edge of the shape is offset by this value.

deltaSouth: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the x coordinate of the line is offset by this value. Else the south edge of the shape is offset by this value.

deltaWest: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the y coordinate of the line is offset by this value. Else the west edge of the shape is offset by this value.

deltaEast: A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the x coordinate of the line is offset by this value. Else the east edge of the shape is offset by this value.

3.1.4.46.2.2   ResizeShapeResponse

The **ResizeShapeResponse** element specifies the result data for the **ResizeShape WSDL operation**.

```
<xs:element name="ResizeShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResizeShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ResizeShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.46.3   Complex Types

None.

3.1.4.46.4   Simple Types

None.

3.1.4.46.5 Attributes

None.

3.1.4.46.6 Groups

None.

3.1.4.46.7 Attribute Groups

None.

3.1.4.47 ReverseSmartArt

The **ReverseSmartArt** operation is used to reverse the direction of a **SmartArt** diagram in a **presentation**.

The following is the **WSDL** port type specification of the **ReverseSmartArt WSDL operation**.

```
<wsdl:operation name="ReverseSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArt"
message="tns4:IPptEdit_ReverseSmartArt_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArtResponse"
message="tns4:IPptEdit_ReverseSmartArt_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ReverseSmartArt_InputMessage** request message, and the protocol server responds with an **IPptEdit_ReverseSmartArt_OutputMessage** response message.

3.1.4.47.1 Messages

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

Message	Description
IPptEdit_ReverseSmartArt_InputMessage	The request WSDL message for the **ReverseSmartArt WSDL operation**.
IPptEdit_ReverseSmartArt_OutputMessage	The response WSDL message for the **ReverseSmartArt** WSDL operation.

3.1.4.47.1.1 IPptEdit_ReverseSmartArt_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ReverseSmartArt
```

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

3.1.4.47.1.2 IPptEdit_ReverseSmartArt_OutputMessage

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

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

3.1.4.47.2 Elements

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

Element	Description
ReverseSmartArt	The input data for the **ReverseSmartArt WSDL operation**.
ReverseSmartArtResponse	The result data for the **ReverseSmartArt** WSDL operation.

3.1.4.47.2.1 ReverseSmartArt

The **ReverseSmartArt** element specifies the input data for the **ReverseSmartArt WSDL operation**.

```
<xs:element name="ReverseSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **SmartArt** diagram that is reversed, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the SmartArt diagram that is reversed.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the SmartArt diagram that is reversed.

3.1.4.47.2.2 ReverseSmartArtResponse

The **ReverseSmartArtResponse** element specifies the result data for the **ReverseSmartArt WSDL operation**.

```
<xs:element name="ReverseSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReverseSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ReverseSmartArtResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.47.3   Complex Types

None.

3.1.4.47.4   Simple Types

None.

3.1.4.47.5   Attributes

None.

3.1.4.47.6   Groups

None.

3.1.4.47.7   Attribute Groups

None.

3.1.4.48   RotateShape

The **RotateShape** operation SHOULD<95> be used to rotate a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **RotateShape WSDL operation**.

```
<wsdl:operation name="RotateShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RotateShape" message="tns4:IPptEdit_RotateShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RotateShapeResponse"
message="tns4:IPptEdit_RotateShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_RotateShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_RotateShape_OutputMessage** response message.

3.1.4.48.1   Messages

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

Message	Description
IPptEdit_RotateShape_InputMessage	The request WSDL message for the **RotateShape WSDL operation**.
IPptEdit_RotateShape_OutputMessage	The response WSDL message for the **RotateShape** WSDL operation.

3.1.4.48.1.1 IPptEdit_RotateShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/RotateShape
```

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

3.1.4.48.1.2 IPptEdit_RotateShape_OutputMessage

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

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

3.1.4.48.2   Elements

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

Element	Description
RotateShape	The input data for the **RotateShape WSDL operation**.
RotateShapeResponse	The result data for the **RotateShape** WSDL operation.

3.1.4.48.2.1 RotateShape

The **RotateShape** element specifies the input data for the **RotateShape WSDL operation**.

```
<xs:element name="RotateShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="degrees" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified. The shape MUST NOT be a chart, **SmartArt**, table, or ActiveX shape.

degrees: An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the number of degrees the shape is rotated from its default orientation.

3.1.4.48.2.2 RotateShapeResponse

The **RotateShapeResponse** element specifies the result data for the **RotateShape WSDL operation**.

```
<xs:element name="RotateShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RotateShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

RotateShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.48.3   Complex Types

None.

3.1.4.48.4   Simple Types

None.

3.1.4.48.5   Attributes

None.

3.1.4.48.6   Groups

None.

3.1.4.48.7   Attribute Groups

None.

3.1.4.49   SaveAndClose

The **SaveAndClose** operation is used to save the contents of a **presentation** and unlock it.

The following is the **WSDL** port type specification of the **SaveAndClose WSDL operation**.

```
<wsdl:operation name="SaveAndClose" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SaveAndClose"
message="tns4:IPptEdit_SaveAndClose_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SaveAndCloseResponse"
message="tns4:IPptEdit_SaveAndClose_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SaveAndClose_InputMessage** request message, and the protocol server responds with an **IPptEdit_SaveAndClose_OutputMessage** response message.

3.1.4.49.1 Messages

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

Message	Description
IPptEdit_SaveAndClose_InputMessage	The request WSDL message for the **SaveAndClose WSDL operation**.
IPptEdit_SaveAndClose_OutputMessage	The response WSDL message for the **SaveAndClose** WSDL operation.

3.1.4.49.1.1 IPptEdit_SaveAndClose_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SaveAndClose
```

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

3.1.4.49.1.2 IPptEdit_SaveAndClose_OutputMessage

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

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

3.1.4.49.2 Elements

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

Element	Description
SaveAndClose	The input data for the **SaveAndClose WSDL operation**.
SaveAndCloseResponse	The result data for the **SaveAndClose** WSDL operation.

3.1.4.49.2.1 SaveAndClose

The **SaveAndClose** element specifies the input data for the **SaveAndClose WSDL operation**.

```
<xs:element name="SaveAndClose" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>

    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fReleaseLock" type="xs:boolean"/>
      <xs:element minOccurs="0" name="fWaitForSave" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
```

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

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

fReleaseLock: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the presentation will become unlocked.

fWaitForSave: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether the protocol server makes a blocking call until the save is finished.

3.1.4.49.2.2 SaveAndCloseResponse

The **SaveAndCloseResponse** element specifies the result data for the **SaveAndClose WSDL operation**.

```
    <xs:element name="SaveAndCloseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SaveAndCloseResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
```

SaveAndCloseResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.49.3   Complex Types

None.

3.1.4.49.4   Simple Types

None.

3.1.4.49.5   Attributes

None.

3.1.4.49.6   Groups

None.

3.1.4.49.7   Attribute Groups

None.

3.1.4.50   SetAnimation

The **SetAnimation** operation SHOULD<96> be used to apply an animation to a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **SetAnimation WSDL operation**.

```
    <wsdl:operation name="SetAnimation" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```
   <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimation"
message="tns4:IPptEdit_SetAnimation_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimationResponse"
message="tns4:IPptEdit_SetAnimation_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetAnimation_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetAnimation_OutputMessage** response message.

3.1.4.50.1   Messages

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

Message	Description
IPptEdit_SetAnimation_InputMessage	The request WSDL message for the **SetAnimation WSDL operation**.
IPptEdit_SetAnimation_OutputMessage	The response WSDL message for the **SetAnimation** WSDL operation.

3.1.4.50.1.1   IPptEdit_SetAnimation_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetAnimation
```

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

3.1.4.50.1.2   IPptEdit_SetAnimation_OutputMessage

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

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

3.1.4.50.2   Elements

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

Element	Description
SetAnimation	The input data for the **SetAnimation WSDL operation**.
SetAnimationResponse	The result data for the **SetAnimation** WSDL operation.

3.1.4.50.2.1 SetAnimation

The **SetAnimation** element specifies the input data for the **SetAnimation WSDL operation**.

```
<xs:element name="SetAnimation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fxId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="sequenceId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

fxId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the animation. The value MUST be a value from the following table.

Value	Meaning
0x0	None
0x1	Appear
0x2	Fly In
0x3	Fade

direction: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of the animation. The value MUST be zero if **fxId** is not 2. The value MUST be a value from the following table if **fxId** is 2.

Value	Meaning
0x0	None
0x1	Up
0x2	Right
0x3	Down
0x4	Left

sequenceId: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the sequence type of the animation. The value MUST be a value from the following table.

Value	Meaning
0x0	Default
0x1	As One Object
0x2	By Paragraph
0x3	One by One

3.1.4.50.2.2 SetAnimationResponse

The **SetAnimationResponse** element specifies the result data for the **SetAnimation WSDL operation**.

```
<xs:element name="SetAnimationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetAnimationResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetAnimationResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.50.3 Complex Types

None.

3.1.4.50.4 Simple Types

None.

3.1.4.50.5 Attributes

None.

3.1.4.50.6 Groups

None.

3.1.4.50.7 Attribute Groups

None.

3.1.4.51 SetShapeAlignment

The **SetShapeAlignment** operation is used to set the alignment of a **shape**.

The following is the **WSDL** port type specification of the **SetShapeAlignment WSDL operation**.

```
<wsdl:operation name="SetShapeAlignment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeAlignment"
message="tns4:IPptEdit_SetShapeAlignment_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeAlignmentResponse"
message="tns4:IPptEdit_SetShapeAlignment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeAlignment_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeAlignment_OutputMessage** response message.

3.1.4.51.1   Messages

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

Message	Description
IPptEdit_SetShapeAlignment_InputMessage	The request WSDL message for the **SetShapeAlignment WSDL operation**.
IPptEdit_SetShapeAlignment_OutputMessage	The response WSDL message for the **SetShapeAlignment** WSDL operation.

3.1.4.51.1.1   IPptEdit_SetShapeAlignment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeAlignment
```

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

3.1.4.51.1.2   IPptEdit_SetShapeAlignment_OutputMessage

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

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

3.1.4.51.2   Elements

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

Element	Description
SetShapeAlignment	The input data for the **SetShapeAlignment WSDL operation**.

Element	Description
SetShapeAlignmentResponse	The result data for the **SetShapeAlignment** WSDL operation.

3.1.4.51.2.1 SetShapeAlignment

The **SetShapeAlignment** element specifies the input data for the **SetShapeAlignment WSDL operation**.

```
<xs:element name="SetShapeAlignment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="textAlignment" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

textAlignment: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the alignment type. The value MUST be a value from the following table.

Value	Meaning
0x0	Center
0x1	Left
0x2	Right
0x3	Justify

3.1.4.51.2.2 SetShapeAlignmentResponse

The **SetShapeAlignmentResponse** element specifies the result data for the **SetShapeAlignment WSDL operation**.

```
<xs:element name="SetShapeAlignmentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>

    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeAlignmentResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
```

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

SetShapeAlignmentResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.51.3   Complex Types

None.

3.1.4.51.4   Simple Types

None.

3.1.4.51.5   Attributes

None.

3.1.4.51.6   Groups

None.

3.1.4.51.7   Attribute Groups

None.

3.1.4.52   SetShapeBold

The **SetShapeBold** operation is used to make the text in a **shape** bold.

The following is the **WSDL** port type specification of the **SetShapeBold WSDL operation**.

```
<wsdl:operation name="SetShapeBold" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBold"
message="tns4:IPptEdit_SetShapeBold_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBoldResponse"
message="tns4:IPptEdit_SetShapeBold_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeBold_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeBold_OutputMessage** response message.

3.1.4.52.1   Messages

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

Message	Description
IPptEdit_SetShapeBold_InputMessage	The request WSDL message for the **SetShapeBold WSDL operation**.

Message	Description
IPptEdit_SetShapeBold_OutputMessage	The response WSDL message for the **SetShapeBold** WSDL operation.

3.1.4.52.1.1 IPptEdit_SetShapeBold_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeBold
```

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

3.1.4.52.1.2 IPptEdit_SetShapeBold_OutputMessage

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

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

3.1.4.52.2   Elements

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

Element	Description
SetShapeBold	The input data for the **SetShapeBold WSDL operation**.
SetShapeBoldResponse	The result data for the **SetShapeBold** WSDL operation.

3.1.4.52.2.1 SetShapeBold

The **SetShapeBold** element specifies the input data for the **SetShapeBold WSDL operation**.

```
<xs:element name="SetShapeBold" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isBold" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

isBold: A **boolean** that specifies if the text should be made bold.

3.1.4.52.2.2 SetShapeBoldResponse

The **SetShapeBoldResponse** element specifies the result data for the **SetShapeBold WSDL operation**.

```
<xs:element name="SetShapeBoldResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBoldResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeBoldResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.52.3 Complex Types

None.

3.1.4.52.4 Simple Types

None.

3.1.4.52.5 Attributes

None.

3.1.4.52.6 Groups

None.

3.1.4.52.7 Attribute Groups

None.

3.1.4.53 SetShapeBullet

The **SetShapeBullet** operation is used to make the text in a **shape** into a bulleted list.

The following is the **WSDL** port type specification of the **SetShapeBullet WSDL operation**.

```
<wsdl:operation name="SetShapeBullet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBullet"
message="tns4:IPptEdit_SetShapeBullet_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBulletResponse"
message="tns4:IPptEdit_SetShapeBullet_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

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

The protocol client sends an **IPptEdit_SetShapeBullet_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeBullet_OutputMessage** response message.

3.1.4.53.1   Messages

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

Message	Description
IPptEdit_SetShapeBullet_InputMessage	The request WSDL message for the **SetShapeBullet WSDL operation**.
IPptEdit_SetShapeBullet_OutputMessage	The response WSDL message for the **SetShapeBullet** WSDL operation.

3.1.4.53.1.1 IPptEdit_SetShapeBullet_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeBullet
```

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

3.1.4.53.1.2 IPptEdit_SetShapeBullet_OutputMessage

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

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

3.1.4.53.2   Elements

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

Element	Description
SetShapeBullet	The input data for the **SetShapeBullet WSDL operation**.
SetShapeBulletResponse	The result data for the **SetShapeBullet** WSDL operation.

3.1.4.53.2.1 SetShapeBullet

The **SetShapeBullet** element specifies the input data for the **SetShapeBullet WSDL operation**.

```
<xs:element name="SetShapeBullet" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="textBullet" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

textBullet: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the bullet type. The value MUST be a value from the following table.

Value	Meaning
0x0	None
0x1	Bullet
0x2	Number

.

3.1.4.53.2.2   SetShapeBulletResponse

The **SetShapeBulletResponse** element specifies the result data for the **SetShapeBullet WSDL operation**.

```
    <xs:element name="SetShapeBulletResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
    name="SetShapeBulletResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
```

SetShapeBulletResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.53.3   Complex Types

None.

3.1.4.53.4   Simple Types

None.

3.1.4.53.5   Attributes

None.

3.1.4.53.6   Groups

None.

3.1.4.53.7   Attribute Groups

None.

3.1.4.54   SetShapeFontColor

The **SetShapeFontColor** operation is used to set the font color of a **shape**.

The following is the **WSDL** port type specification of the **SetShapeFontColor WSDL operation**.

```
<wsdl:operation name="SetShapeFontColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontColor"
message="tns4:IPptEdit_SetShapeFontColor_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontColorResponse"
message="tns4:IPptEdit_SetShapeFontColor_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeFontColor_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeFontColor_OutputMessage** response message.

3.1.4.54.1 Messages

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

Message	Description
IPptEdit_SetShapeFontColor_InputMessage	The request WSDL message for the **SetShapeFontColor WSDL operation**.
IPptEdit_SetShapeFontColor_OutputMessage	The response WSDL message for the **SetShapeFontColor** WSDL operation.

3.1.4.54.1.1 IPptEdit_SetShapeFontColor_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeFontColor
```

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

3.1.4.54.1.2 IPptEdit_SetShapeFontColor_OutputMessage

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

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

3.1.4.54.2   Elements

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

Element	Description
SetShapeFontColor	The input data for the **SetShapeFontColor WSDL operation**.
SetShapeFontColorResponse	The result data for the **SetShapeFontColor** WSDL operation.

3.1.4.54.2.1 SetShapeFontColor

The **SetShapeFontColor** element specifies the input data for the **SetShapeFontColor WSDL operation**.

```
<xs:element name="SetShapeFontColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

RGBColor: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the red, green, and blue components of the color.

3.1.4.54.2.2 SetShapeFontColorResponse

The **SetShapeFontColorResponse** element specifies the result data for the **SetShapeFontColor WSDL operation**.

```
<xs:element name="SetShapeFontColorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontColorResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
```

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

SetShapeFontColorResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.54.3   Complex Types

None.

3.1.4.54.4   Simple Types

None.

3.1.4.54.5   Attributes

None.

3.1.4.54.6   Groups

None.

3.1.4.54.7   Attribute Groups

None.

3.1.4.55   SetShapeFontName

The **SetShapeFontName** operation is used to set the font name for text for a **shape**.

The following is the **WSDL** port type specification of the **SetShapeFontName WSDL operation**.

```
<wsdl:operation name="SetShapeFontName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontName"
message="tns4:IPptEdit_SetShapeFontName_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontNameResponse"
message="tns4:IPptEdit_SetShapeFontName_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeFontName_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeFontName_OutputMessage** response message.

3.1.4.55.1   Messages

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

Message	Description
IPptEdit_SetShapeFontName_InputMessage	The request WSDL message for the **SetShapeFontName WSDL operation**.

Message	Description
IPptEdit_SetShapeFontName_OutputMessage	The response WSDL message for the **SetShapeFontName** WSDL operation.

3.1.4.55.1.1 IPptEdit_SetShapeFontName_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeFontName
```

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

3.1.4.55.1.2 IPptEdit_SetShapeFontName_OutputMessage

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

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

3.1.4.55.2   Elements

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

Element	Description
SetShapeFontName	The input data for the **SetShapeFontName WSDL operation**.
SetShapeFontNameResponse	The result data for the **SetShapeFontName** WSDL operation.

3.1.4.55.2.1 SetShapeFontName

The **SetShapeFontName** element specifies the input data for the **SetShapeFontName WSDL operation**.

```
<xs:element name="SetShapeFontName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fontName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

fontName: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the font name.

3.1.4.55.2.2 SetShapeFontNameResponse

The **SetShapeFontNameResponse** element specifies the result data for the **SetShapeFontName WSDL operation**.

```
<xs:element name="SetShapeFontNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontNameResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeFontNameResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.55.3   Complex Types

None.

3.1.4.55.4   Simple Types

None.

3.1.4.55.5   Attributes

None.

3.1.4.55.6   Groups

None.

3.1.4.55.7   Attribute Groups

None.

3.1.4.56   SetShapeFontSize

The **SetShapeFontSize** operation is used to set the font size for text for a shape.

The following is the **WSDL** port type specification of the **SetShapeFontSize WSDL operation**.

```
<wsdl:operation name="SetShapeFontSize" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontSize"
message="tns4:IPptEdit_SetShapeFontSize_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/SetShapeFontSizeResponse"
message="tns4:IPptEdit SetShapeFontSize OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeFontSize_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeFontSize_OutputMessage** response message.

3.1.4.56.1   Messages

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

Message	Description
IPptEdit_SetShapeFontSize_InputMessage	The request WSDL message for the **SetShapeFontSize WSDL operation**.
IPptEdit_SetShapeFontSize_OutputMessage	The response WSDL message for the **SetShapeFontSize** WSDL operation.

3.1.4.56.1.1 IPptEdit_SetShapeFontSize_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeFontSize
```

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

3.1.4.56.1.2 IPptEdit_SetShapeFontSize_OutputMessage

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

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

3.1.4.56.2   Elements

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

Element	Description
SetShapeFontSize	The input data for the **SetShapeFontSize WSDL operation**.
SetShapeFontSizeResponse	The result data for the **SetShapeFontSize** WSDL operation.

3.1.4.56.2.1 SetShapeFontSize

The **SetShapeFontSize** element specifies the input data for the **SetShapeFontSize WSDL operation**.

```
<xs:element name="SetShapeFontSize" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fontSize" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

fontSize: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the font size.

3.1.4.56.2.2 SetShapeFontSizeResponse

The **SetShapeFontSizeResponse** element specifies the result data for the **SetShapeFontSize WSDL operation**.

```
<xs:element name="SetShapeFontSizeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontSizeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeFontSizeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.56.3   Complex Types

None.

3.1.4.56.4   Simple Types

None.

3.1.4.56.5   Attributes

None.

3.1.4.56.6   Groups

None.

3.1.4.56.7   Attribute Groups

None.

3.1.4.57   SetShapeItalic

The **SetShapeItalic** operation is used to italicize the text for a shape.

The following is the **WSDL** port type specification of the **SetShapeItalic WSDL operation**.

```
<wsdl:operation name="SetShapeItalic" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeItalic"
message="tns4:IPptEdit_SetShapeItalic_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeItalicResponse"
message="tns4:IPptEdit_SetShapeItalic_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeItalic_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeItalic_OutputMessage** response message.

3.1.4.57.1   Messages

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

Message	Description
IPptEdit_SetShapeItalic_InputMessage	The request WSDL message for the **SetShapeItalic WSDL operation**.
IPptEdit_SetShapeItalic_OutputMessage	The response WSDL message for the **SetShapeItalic** WSDL operation.

3.1.4.57.1.1   IPptEdit_SetShapeItalic_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeItalic
```

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

3.1.4.57.1.2   IPptEdit_SetShapeItalic_OutputMessage

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

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

3.1.4.57.2 Elements

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

Element	Description
SetShapeItalic	The input data for the **SetShapeItalic WSDL operation**.
SetShapeItalicResponse	The result data for the **SetShapeItalic** WSDL operation.

3.1.4.57.2.1 SetShapeItalic

The **SetShapeItalic** element specifies the input data for the **SetShapeItalic WSDL operation**.

```
<xs:element name="SetShapeItalic" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isItalic" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

isItalic: A **boolean** that specifies if the text should be italicized.

3.1.4.57.2.2 SetShapeItalicResponse

The **SetShapeItalicResponse** element specifies the result data for the **SetShapeItalic WSDL operation**.

```
<xs:element name="SetShapeItalicResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeItalicResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeItalicResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.57.3 Complex Types

None.

3.1.4.57.4   Simple Types

None.

3.1.4.57.5   Attributes

None.

3.1.4.57.6   Groups

None.

3.1.4.57.7   Attribute Groups

None.

3.1.4.58   SetShapeTextDirection

The **SetShapeTextDirection** operation is used to set the text direction for a shape.

The following is the **WSDL** port type specification of the **SetShapeTextDirection WSDL operation**.

```
<wsdl:operation name="SetShapeTextDirection" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeTextDirection"
message="tns4:IPptEdit_SetShapeTextDirection_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeTextDirectionResponse"
message="tns4:IPptEdit_SetShapeTextDirection_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeTextDirection_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeTextDirection_OutputMessage** response message.

3.1.4.58.1   Messages

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

Message	Description
IPptEdit_SetShapeTextDirection_InputMessage	The request WSDL message for the **SetShapeTextDirection WSDL operation**.
IPptEdit_SetShapeTextDirection_OutputMessage	The response WSDL message for the **SetShapeTextDirection** WSDL operation.

3.1.4.58.1.1   IPptEdit_SetShapeTextDirection_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeTextDirection
```

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

3.1.4.58.1.2 IPptEdit_SetShapeTextDirection_OutputMessage

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

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

3.1.4.58.2   Elements

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

Element	Description
SetShapeTextDirection	The input data for the **SetShapeTextDirection WSDL operation**.
SetShapeTextDirectionResponse	The result data for the **SetShapeTextDirection** WSDL operation.

3.1.4.58.2.1 SetShapeTextDirection

The **SetShapeTextDirection** element specifies the input data for the **SetShapeTextDirection WSDL operation**.

```
<xs:element name="SetShapeTextDirection" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="textDirection" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

textDirection: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the text direction. The value MUST be a value from the following table.

Value	Meaning
0x0	Neutral
0x1	Left to Right

Value	Meaning
0x2	Right to Left

.

3.1.4.58.2.2 SetShapeTextDirectionResponse

The **SetShapeTextDirectionResponse** element specifies the result data for the
SetShapeTextDirection WSDL operation.

```
<xs:element name="SetShapeTextDirectionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeTextDirectionResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeTextDirectionResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the
operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.58.3   Complex Types

None.

3.1.4.58.4   Simple Types

None.

3.1.4.58.5   Attributes

None.

3.1.4.58.6   Groups

None.

3.1.4.58.7   Attribute Groups

None.

3.1.4.59   SetShapeUnderline

The **SetShapeUnderline** operation is used to underline text in a shape.

The following is the **WSDL** port type specification of the **SetShapeUnderline WSDL operation**.

```
<wsdl:operation name="SetShapeUnderline" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeUnderline"
message="tns4:IPptEdit_SetShapeUnderline_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeUnderlineResponse"
```

```
message="tns4:IPptEdit_SetShapeUnderline_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetShapeUnderline_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetShapeUnderline_OutputMessage** response message.

3.1.4.59.1   Messages

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

Message	Description
IPptEdit_SetShapeUnderline_InputMessage	The request WSDL message for the **SetShapeUnderline WSDL operation**.
IPptEdit_SetShapeUnderline_OutputMessage	The response WSDL message for the **SetShapeUnderline** WSDL operation.

3.1.4.59.1.1 IPptEdit_SetShapeUnderline_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetShapeUnderline
```

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

3.1.4.59.1.2 IPptEdit_SetShapeUnderline_OutputMessage

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

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

3.1.4.59.2   Elements

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

Element	Description
SetShapeUnderline	The input data for the **SetShapeUnderline WSDL operation**.
SetShapeUnderlineResponse	The result data for the **SetShapeUnderline** WSDL operation.

3.1.4.59.2.1 SetShapeUnderline

The **SetShapeUnderline** element specifies the input data for the **SetShapeUnderline WSDL operation**.

```
<xs:element name="SetShapeUnderline" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isUnderline" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

isUnderline: A **boolean** that specifies if the shape text should be underlined.

3.1.4.59.2.2   SetShapeUnderlineResponse

The **SetShapeUnderlineResponse** element specifies the result data for the **SetShapeUnderline WSDL operation**.

```
<xs:element name="SetShapeUnderlineResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeUnderlineResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetShapeUnderlineResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.59.3   Complex Types

None.

3.1.4.59.4   Simple Types

None.

3.1.4.59.5   Attributes

None.

3.1.4.59.6   Groups

None.

3.1.4.59.7   Attribute Groups

None.

3.1.4.60 SetTransition

The **SetTransition** operation SHOULD<97> be used to apply a transition to a **slide** in a **presentation**.

The following is the **WSDL** port type specification of the **SetTransition WSDL operation**.

```
<wsdl:operation name="SetTransition" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransition"
message="tns4:IPptEdit_SetTransition_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionResponse"
message="tns4:IPptEdit_SetTransition_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetTransition_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetTransition_OutputMessage** response message.

3.1.4.60.1 Messages

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

Message	Description
IPptEdit_SetTransition_InputMessage	The request WSDL message for the **SetTransition WSDL operation**.
IPptEdit_SetTransition_OutputMessage	The response WSDL message for the **SetTransition** WSDL operation.

3.1.4.60.1.1 IPptEdit_SetTransition_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetTransition
```

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

3.1.4.60.1.2 IPptEdit_SetTransition_OutputMessage

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

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

3.1.4.60.2 Elements

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

Element	Description
SetTransition	The input data for the **SetTransition WSDL operation**.
SetTransitionResponse	The result data for the **SetTransition** WSDL operation.

3.1.4.60.2.1 SetTransition

The **SetTransition** element specifies the input data for the **SetTransition WSDL operation**.

```
<xs:element name="SetTransition" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="type" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="duration" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="isManualAdvance" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the slide, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.

type: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of transition. The value MUST be a value from the following table.

Value	Meaning
0x0	None
0x6	Fade through black
0x17	Fade smoothly
0x14	Push

direction: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of transition. If **type** is not 0x14, the value MUST be zero. If **type** is 0x14, the value MUST be a value from the following table.

Value	Meaning
0x0	From right
0x1	From bottom
0x2	From left

Value	Meaning
0x3	From top

duration: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the duration of the transition in milliseconds.

isManualAdvance: Reserved. MUST be ignored.

3.1.4.60.2.2 SetTransitionResponse

The **SetTransitionResponse** element specifies the result data for the **SetTransition WSDL operation**.

```
<xs:element name="SetTransitionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetTransitionResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.60.3 Complex Types

None.

3.1.4.60.4 Simple Types

None.

3.1.4.60.5 Attributes

None.

3.1.4.60.6 Groups

None.

3.1.4.60.7 Attribute Groups

None.

3.1.4.61 SetTransitionApplyAll

The **SetTransitionApplyAll** operation SHOULD<98> be used to copy a transition from one **slide** and apply it to all other slides in a **presentation**.

The following is the **WSDL** port type specification of the **SetTransitionApplyAll WSDL operation**.

```
<wsdl:operation name="SetTransitionApplyAll" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```
   <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAll"
message="tns4:IPptEdit_SetTransitionApplyAll_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
   <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAllResponse"
message="tns4:IPptEdit_SetTransitionApplyAll_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_SetTransitionApplyAll_InputMessage** request message, and the protocol server responds with an **IPptEdit_SetTransitionApplyAll_OutputMessage** response message.

3.1.4.61.1   Messages

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

Message	Description
IPptEdit_SetTransitionApplyAll_InputMessage	The request WSDL message for the **SetTransitionApplyAll WSDL operation**.
IPptEdit_SetTransitionApplyAll_OutputMessage	The response WSDL message for the **SetTransitionApplyAll** WSDL operation.

3.1.4.61.1.1   IPptEdit_SetTransitionApplyAll_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetTransitionApplyAll
```

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

3.1.4.61.1.2   IPptEdit_SetTransitionApplyAll_OutputMessage

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

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

3.1.4.61.2   Elements

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

Element	Description
SetTransitionApplyAll	The input data for the **SetTransitionApplyAll WSDL operation**.
SetTransitionApplyAllResponse	The result data for the **SetTransitionApplyAll** WSDL operation.

3.1.4.61.2.1 SetTransitionApplyAll

The **SetTransitionApplyAll** element specifies the input data for the **SetTransitionApplyAll WSDL operation**.

```
<xs:element name="SetTransitionApplyAll" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the transition to be copied.

3.1.4.61.2.2 SetTransitionApplyAllResponse

The **SetTransitionApplyAllResponse** element specifies the result data for the **SetTransitionApplyAll WSDL operation**.

```
<xs:element name="SetTransitionApplyAllResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionApplyAllResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetTransitionApplyAllResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.61.3   Complex Types

None.

3.1.4.61.4   Simple Types

None.

3.1.4.61.5   Attributes

None.

3.1.4.61.6   Groups

None.

3.1.4.61.7   Attribute Groups

None.

3.1.4.62 SetWordArt

Reserved. MUST not be called.

The following is the **WSDL** port type specification of the **SetWordArt WSDL operation**.

```
<wsdl:operation name="SetWordArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArt" message="tns4:IPptEdit_SetWordArt_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArtResponse"
message="tns4:IPptEdit_SetWordArt_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

Reserved. MUST not be called.

3.1.4.62.1 Messages

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

Message	Description
IPptEdit_SetWordArt_InputMessage	The request WSDL message for the **SetWordArt WSDL operation**.
IPptEdit_SetWordArt_OutputMessage	The response WSDL message for the **SetWordArt** WSDL operation.

3.1.4.62.1.1 IPptEdit_SetWordArt_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/SetWordArt
```

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

3.1.4.62.1.2 IPptEdit_SetWordArt_OutputMessage

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

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

3.1.4.62.2 Elements

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

Element	Description
SetWordArt	The input data for the **SetWordArt WSDL operation**.

Element	Description
SetWordArtResponse	The result data for the **SetWordArt** WSDL operation.

3.1.4.62.2.1 SetWordArt

The **SetWordArt** element specifies the input data for the **SetWordArt WSDL operation**.

```
<xs:element name="SetWordArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="styleId" type="xs:int"/>
      <xs:element minOccurs="0" name="isClear" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: Reserved. MUST be ignored.

slideId: Reserved. MUST be ignored.

shapeId: Reserved. MUST be ignored.

styleId: Reserved. MUST be ignored.

isClear: Reserved. MUST be ignored.

3.1.4.62.2.2 SetWordArtResponse

The **SetWordArtResponse** element specifies the result data for the **SetWordArt WSDL operation**.

```
<xs:element name="SetWordArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetWordArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SetWordArtResult: Reserved. MUST be ignored.

3.1.4.62.3   Complex Types

None.

3.1.4.62.4   Simple Types

None.

3.1.4.62.5   Attributes

None.

3.1.4.62.6   Groups

None.

3.1.4.62.7   Attribute Groups

None.

3.1.4.63   ShapeFormatPainting

The **ShapeFormatPainting** operation SHOULD<99> be used to copy formatting from one **shape** and apply it to another shape in the **presentation**.

The following is the **WSDL** port type specification of the **ShapeFormatPainting WSDL operation**.

```
<wsdl:operation name="ShapeFormatPainting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPainting"
message="tns4:IPptEdit_ShapeFormatPainting_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPaintingResponse"
message="tns4:IPptEdit_ShapeFormatPainting_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ShapeFormatPainting_InputMessage** request message, and the protocol server responds with an **IPptEdit_ShapeFormatPainting_OutputMessage** response message.

3.1.4.63.1   Messages

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

Message	Description
IPptEdit_ShapeFormatPainting_InputMessage	The request WSDL message for the **ShapeFormatPainting WSDL operation**.
IPptEdit_ShapeFormatPainting_OutputMessage	The response WSDL message for the **ShapeFormatPainting** WSDL operation.

3.1.4.63.1.1   IPptEdit_ShapeFormatPainting_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ShapeFormatPainting
```

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

3.1.4.63.1.2 IPptEdit_ShapeFormatPainting_OutputMessage

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

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

3.1.4.63.2   Elements

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

Element	Description
ShapeFormatPainting	The input data for the **ShapeFormatPainting WSDL operation**.
ShapeFormatPaintingResponse	The result data for the **ShapeFormatPainting** WSDL operation.

3.1.4.63.2.1 ShapeFormatPainting

The **ShapeFormatPainting** element specifies the input data for the **ShapeFormatPainting WSDL operation**.

```
<xs:element name="ShapeFormatPainting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="destinationShapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

sourceSlideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the **shape** that the formatting is copied from.

sourceShapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that the formatting is copied from. The shape MUST NOT be a group, **SmartArt**, table, chart, or ActiveX shape.

destinationSlideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is applied to.

destinationShapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that the formatting is applied to. The shape MUST NOT be a SmartArt, table, chart, or ActiveX shape.

3.1.4.63.2.2 ShapeFormatPaintingResponse

The **ShapeFormatPaintingResponse** element specifies the result data for the **ShapeFormatPainting WSDL operation**.

```
<xs:element name="ShapeFormatPaintingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
   <xs:complexType>
     <xs:sequence>
       <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShapeFormatPaintingResult" nillable="true" type="tns2:ServiceResult"/>
     </xs:sequence>
   </xs:complexType>
</xs:element>
```

ShapeFormatPaintingResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.63.3   Complex Types

None.

3.1.4.63.4   Simple Types

None.

3.1.4.63.5   Attributes

None.

3.1.4.63.6   Groups

None.

3.1.4.63.7   Attribute Groups

None.

3.1.4.64   ShowHideSlide

The **ShowHideSlide** operation is used to show or hide a **presentation slide**.

The following is the **WSDL** port type specification of the **ShowHideSlide WSDL operation**.

```
<wsdl:operation name="ShowHideSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShowHideSlide"
message="tns4:IPptEdit_ShowHideSlide_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShowHideSlideResponse"
message="tns4:IPptEdit_ShowHideSlide_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IPptEdit_ShowHideSlide_InputMessage** request message, and the protocol server responds with an **IPptEdit_ShowHideSlide_OutputMessage** response message.

3.1.4.64.1   Messages

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

Message	Description
IPptEdit_ShowHideSlide_InputMessage	The request WSDL message for the **ShowHideSlide WSDL operation**.
IPptEdit_ShowHideSlide_OutputMessage	The response WSDL message for the **ShowHideSlide** WSDL operation.

3.1.4.64.1.1 IPptEdit_ShowHideSlide_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/ShowHideSlide
```

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

3.1.4.64.1.2 IPptEdit_ShowHideSlide_OutputMessage

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

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

3.1.4.64.2   Elements

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

Element	Description
ShowHideSlide	The input data for the **ShowHideSlide WSDL operation**.
ShowHideSlideResponse	The result data for the **ShowHideSlide** WSDL operation.

3.1.4.64.2.1 ShowHideSlide

The **ShowHideSlide** element specifies the input data for the **ShowHideSlide WSDL operation**.

```
<xs:element name="ShowHideSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fHidden" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the target **presentation slide**, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the target presentation.

fHidden: A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies if the operation is to show or hide the presentation slide. If the value is true, the protocol server MUST make the presentation slide hidden. Otherwise, the protocol server MUST make the presentation slide shown. MUST be present.

3.1.4.64.2.2 ShowHideSlideResponse

The **ShowHideSlideResponse** element specifies the result data for the **ShowHideSlide WSDL operation**.

```
<xs:element name="ShowHideSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShowHideSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ShowHideSlideResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.64.3   Complex Types

None.

3.1.4.64.4   Simple Types

None.

3.1.4.64.5   Attributes

None.

3.1.4.64.6   Groups

None.

3.1.4.64.7   Attribute Groups

None.

3.1.4.65   Undo

The **Undo** operation is used to undo the last operation in a **presentation** that is not undone.

The following is the **WSDL** port type specification of the **Undo WSDL operation**.

```
<wsdl:operation name="Undo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Undo" message="tns4:IPptEdit_Undo_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UndoResponse" message="tns4:IPptEdit_Undo_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

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

The protocol client sends an **IPptEdit_Undo_InputMessage** request message, and the protocol server responds with an **IPptEdit_Undo_OutputMessage** response message.

3.1.4.65.1   Messages

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

Message	Description
IPptEdit_Undo_InputMessage	The request WSDL message for the **Undo WSDL operation**.
IPptEdit_Undo_OutputMessage	The response WSDL message for the **Undo** WSDL operation.

3.1.4.65.1.1 IPptEdit_Undo_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/Undo
```

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

3.1.4.65.1.2 IPptEdit_Undo_OutputMessage

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

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

3.1.4.65.2   Elements

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

Element	Description
Undo	The input data for the **Undo WSDL operation**.
UndoResponse	The result data for the **Undo** WSDL operation.

3.1.4.65.2.1 Undo

The **Undo** element specifies the input data for the **Undo WSDL operation**.

```
<xs:element name="Undo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
```

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

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation**, as specified in section 3.1.4.27.

3.1.4.65.2.2 UndoResponse

The **UndoResponse** element specifies the result data for the **Undo WSDL operation**.

```
<xs:element name="UndoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UndoResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UndoResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.65.3   Complex Types

None.

3.1.4.65.4   Simple Types

None.

3.1.4.65.5   Attributes

None.

3.1.4.65.6   Groups

None.

3.1.4.65.7   Attribute Groups

None.

3.1.4.66   UngroupShape

The **UngroupShape** operation SHOULD<100> be used to ungroup a **shape** in a **presentation**.

The following is the **WSDL** port type specification of the **UngroupShape WSDL operation**.

```
<wsdl:operation name="UngroupShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShape"
message="tns4:IPptEdit_UngroupShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShapeResponse"
```

```
    message="tns4:IPptEdit_UngroupShape_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    </wsdl:operation>
```

The protocol client sends an **IPptEdit_UngroupShape_InputMessage** request message, and the protocol server responds with an **IPptEdit_UngroupShape_OutputMessage** response message.

3.1.4.66.1   Messages

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

Message	Description
IPptEdit_UngroupShape_InputMessage	The request WSDL message for the **UngroupShape WSDL operation**.
IPptEdit_UngroupShape_OutputMessage	The response WSDL message for the **UngroupShape** WSDL operation.

3.1.4.66.1.1 IPptEdit_UngroupShape_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/UngroupShape
```

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

3.1.4.66.1.2 IPptEdit_UngroupShape_OutputMessage

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

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

3.1.4.66.2   Elements

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

Element	Description
UngroupShape	The input data for the **UngroupShape WSDL operation**.
UngroupShapeResponse	The result data for the **UngroupShape** WSDL operation.

3.1.4.66.2.1 UngroupShape

The **UngroupShape** element specifies the input data for the **UngroupShape WSDL operation**.

```
    <xs:element name="UngroupShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
```

presentationId: A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the **presentation** containing the **shape** that is being modified, as specified in section 3.1.4.27.

slideId: An **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide** containing the shape that is being modified.

shapeId: An **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape that is being modified.

3.1.4.66.2.2 UngroupShapeResponse

The **UngroupShapeResponse** element specifies the result data for the **UngroupShape WSDL operation**.

```
<xs:element name="UngroupShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UngroupShapeResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UngroupShapeResult: A **ServiceResult** (section 2.2.4.43) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section 2.2.4.23).

3.1.4.66.3   Complex Types

None.

3.1.4.66.4   Simple Types

None.

3.1.4.66.5   Attributes

None.

3.1.4.66.6   Groups

None.

3.1.4.66.7   Attribute Groups

None.

3.1.4.67   UpdateCanary

Reserved. MUST be ignored.

The following is the **WSDL** port type specification of the **UpdateCanary WSDL operation**.

```
<wsdl:operation name="UpdateCanary" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanary"
message="tns4:IPptEdit_UpdateCanary_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanaryResponse"
message="tns4:IPptEdit_UpdateCanary_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

3.1.4.67.1   Messages

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

Message	Description
IPptEdit_UpdateCanary_InputMessage	The request WSDL message for the **UpdateCanary WSDL operation**.
IPptEdit_UpdateCanary_OutputMessage	The response WSDL message for the **UpdateCanary** WSDL operation.

3.1.4.67.1.1 IPptEdit_UpdateCanary_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInterna
lService/IPptEdit/UpdateCanary
```

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

3.1.4.67.1.2 IPptEdit_UpdateCanary_OutputMessage

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

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

3.1.4.67.2   Elements

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

Element	Description
UpdateCanary	The input data for the **UpdateCanary WSDL operation**.
UpdateCanaryResponse	The result data for the **UpdateCanary** WSDL operation.

3.1.4.67.2.1   UpdateCanary

The **UpdateCanary** element specifies the input data for the **UpdateCanary WSDL operation**.

```
<xs:element name="UpdateCanary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

presentationId: Reserved. MUST be ignored.

3.1.4.67.2.2   UpdateCanaryResponse

The **UpdateCanaryResponse** element specifies the result data for the **UpdateCanary WSDL operation**.

```
<xs:element name="UpdateCanaryResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UpdateCanaryResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

UpdateCanaryResult: Reserved. MUST be ignored.

3.1.4.67.3   Complex Types

None.

3.1.4.67.4   Simple Types

None.

3.1.4.67.5   Attributes

None.

3.1.4.67.6   Groups

None.

3.1.4.67.7   Attribute Groups

None.

3.1.5   Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following example contains a sample interaction between the protocol client and the protocol server.

4.1 Sample Protocol Interaction

In this example, the protocol client sends a request to the protocol server for the identifier of a **presentation**. The following **IPptEdit_GetPresentationId_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetPresentationId
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
      <rawDocId>http://protocolserver/Shared
Documents/MSPWEDPSExample.pptx</rawDocId></GetPresentationId>
   </s:Body>
</s:Envelope>
```

The protocol server responds with the appropriate identifier for the presentation. The following **IPptEdit_GetPresentationId_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body><GetPresentationIdResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

<GetPresentationIdResult>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241f
m568ced57b5cc4aeda74fff96066a8267m</GetPresentationIdResult></GetPresentationIdResponse>
   </s:Body>
</s:Envelope>
```

The response sent to the protocol client also contains the **canary** which is sent back as a **cookie** with the following name: "X-Key". This canary is sent with any subsequent operations to the protocol server that can modify the presentation.

Next, the protocol client sends a request to the protocol server for information about the presentation. The following **IPptEdit_GetEditPresInfo_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body><GetEditPresInfo
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

<presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57
b5cc4aeda74fff96066a8267m</presentationId>
      <firstSlideIndex>0</firstSlideIndex>
      <numSlides>10</numSlides>
      <includedEditSlideIndex>1</includedEditSlideIndex>
      </GetEditPresInfo>
   </s:Body>
</s:Envelope>
```

The protocol server responds with the appropriate information about the presentation. The following **IPptEdit_GetEditPresInfo_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Body>
      <GetEditPresInfoResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
         <GetEditPresInfoResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <a:Error i:nil="true"/>
            <a:Result i:type="a:EditPresentationInfo">
            <a:EditSlideInfos>
               <a:EditSlideInfoFe>
                  <a:Hidden>false</a:Hidden>
                  <a:Id>256</a:Id>
                  <a:Thumb>
                     <a:Alt i:nil="true"/>
                     <a:Clip>
                        <a:Bottom>96</a:Bottom>
                        <a:Left>0</a:Left>
                        <a:Right>128</a:Right>
                        <a:Top>0</a:Top>
                     </a:Clip>
                     <a:Html i:nil="true"/>
                     <a:Id>1</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
                     <a:Position>
                        <a:X>0</a:X>
                        <a:Y>0</a:Y>
                     </a:Position>
                     <a:Z>0</a:Z>
                  </a:Thumb>
                  <a:Title>Fancy Title</a:Title>
               </a:EditSlideInfoFe>
            </a:EditSlideInfos>
            <a:FirstSlideIndex>0</a:FirstSlideIndex>
            <a:HasComments>false</a:HasComments>
            <a:MainMasters>
               <a:MainMasterFe>
                  <a:ContentMasters>
                     <a:ContentMasterFe>
                        <a:Id>2147483649</a:Id>
                        <a:Name>Title Slide</a:Name>
                        <a:SlideLayoutType>title</a:SlideLayoutType>
                     </a:ContentMasterFe>
                     <a:ContentMasterFe>
                        <a:Id>2147483650</a:Id>
                        <a:Name>Title and Content</a:Name>
                        <a:SlideLayoutType>obj</a:SlideLayoutType>
                     </a:ContentMasterFe>
                     <a:ContentMasterFe>
                        <a:Id>2147483651</a:Id>
                        <a:Name>Section Header</a:Name>
                        <a:SlideLayoutType>secHead</a:SlideLayoutType>
                     </a:ContentMasterFe>
                     <a:ContentMasterFe>
                        <a:Id>2147483652</a:Id>
                        <a:Name>Two Content</a:Name>
                        <a:SlideLayoutType>twoObj</a:SlideLayoutType>
                     </a:ContentMasterFe>
                     <a:ContentMasterFe>
                        <a:Id>2147483653</a:Id>
                        <a:Name>Comparison</a:Name>
                        <a:SlideLayoutType>twoTxTwoObj</a:SlideLayoutType>
                     </a:ContentMasterFe>
                     <a:ContentMasterFe>
                        <a:Id>2147483654</a:Id>
                        <a:Name>Title Only</a:Name>
                        <a:SlideLayoutType>titleOnly</a:SlideLayoutType>
```

```
                        </a:ContentMasterFe>
                        <a:ContentMasterFe>
                           <a:Id>2147483655</a:Id>
                           <a:Name>Blank</a:Name>
                           <a:SlideLayoutType>blank</a:SlideLayoutType>
                        </a:ContentMasterFe>
                        <a:ContentMasterFe>
                           <a:Id>2147483656</a:Id>
                           <a:Name>Content with Caption</a:Name>
                           <a:SlideLayoutType>objTx</a:SlideLayoutType>
                        </a:ContentMasterFe>
                        <a:ContentMasterFe>
                           <a:Id>2147483657</a:Id>
                           <a:Name>Picture with Caption</a:Name>
                           <a:SlideLayoutType>picTx</a:SlideLayoutType>
                        </a:ContentMasterFe>
                     </a:ContentMasters>
                     <a:Id>2147483648</a:Id>
                     <a:InContent>true</a:InContent>
                     <a:Name>Office Theme</a:Name>
                  </a:MainMasterFe>
               </a:MainMasters>
               <a:Redo>false</a:Redo>
               <a:Rtl>false</a:Rtl>
               <a:Size>
                  <a:X>620</a:X>
                  <a:Y>465</a:Y>
               </a:Size>
               <a:Slide i:nil="true"/>
               <a:SlideOrder>
                  <a:SlideIds
  xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
                     <b:unsignedInt>256</b:unsignedInt>
                  </a:SlideIds>
               </a:SlideOrder>
               <a:Undo>false</a:Undo>
            </a:Result>
         </GetEditPresInfoResult></GetEditPresInfoResponse>
      </s:Body>
</s:Envelope>
```

Next, the protocol client sends a request to the protocol server for information about a **presentation slide**. The identifier of the first slide is 256 that is specified by the first element of the **SlideOrder** element of the **EditPresentationInfo** element (section 2.2.4.26). The following **IPptEdit_GetEditSlide_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"><s:Body><GetEditSlide
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/"><presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007
e0723241fm568ced57b5cc4aeda74fff96066a8267m</presentationId><slideId>256</slideId></GetEditSl
ide></s:Body></s:Envelope>
```

The protocol server responds with the appropriate information about the presentation slide. The following **IPptEdit_GetEditSlide_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEditSlideResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
       <GetEditSlideResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <a:Error i:nil="true"/>
          <a:Result i:type="a:EditSlide">
```

```
            <a:ContentMasterId>2147483649</a:ContentMasterId>
            <a:EditShapes>
              <a:EditShape>
                <a:Alt i:nil="true"/>
                <a:EditBounds>
                  <a:Bottom>140</a:Bottom>
                  <a:Left>46</a:Left>
                  <a:Right>573</a:Right>
                  <a:Top>41</a:Top>
                </a:EditBounds>
                <a:EditHtml>&lt;div class=defaultPHStyles style='font-size:32.0px;font-
family:Calibri;color:#7293C9;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara
style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6
face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-
transform:uppercase'&gt;&lt;b&gt;Fancy
Title&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</a:EditHtml>
                <a:FontSizeMapping>
                  <a:Size1>12</a:Size1>
                  <a:Size2>15</a:Size2>
                  <a:Size3>19</a:Size3>
                  <a:Size4>21</a:Size4>
                  <a:Size5>28</a:Size5>
                  <a:Size6>44</a:Size6>
                  <a:Size7>56</a:Size7>
                </a:FontSizeMapping>
                <a:IsPicture>false</a:IsPicture>
                <a:IsPlaceholder>true</a:IsPlaceholder>
                <a:IsPrompt>false</a:IsPrompt>
                <a:IsSmartArt>false</a:IsSmartArt>
                <a:PlaceholderType>2</a:PlaceholderType>
                <a:ShapeId>2</a:ShapeId>
                <a:ShapeViewElemId>2</a:ShapeViewElemId>
                <a:SmartArtInfo i:nil="true"/>
                <a:TextViewElemId>3</a:TextViewElemId>
              </a:EditShape>
              <a:EditShape>
                <a:Alt i:nil="true"/>
                <a:EditBounds>
                  <a:Bottom>340</a:Bottom>
                  <a:Left>25</a:Left>
                  <a:Right>459</a:Right>
                  <a:Top>222</a:Top>
                </a:EditBounds>
                <a:EditHtml>&lt;div class=defaultPHStyles style='font-size:24.0px;font-
family:Calibri;color:#1F497D;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara
style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=5
face=Calibri color="#1F497D"&gt;Boring subtitle&lt;/font&gt;&lt;/p&gt;</a:EditHtml>
                <a:FontSizeMapping>
                  <a:Size1>12</a:Size1>
                  <a:Size2>20</a:Size2>
                  <a:Size3>24</a:Size3>
                  <a:Size4>28</a:Size4>
                  <a:Size5>32</a:Size5>
                  <a:Size6>37</a:Size6>
                  <a:Size7>56</a:Size7>
                </a:FontSizeMapping>
                <a:IsPicture>false</a:IsPicture>
                <a:IsPlaceholder>true</a:IsPlaceholder>
                <a:IsPrompt>false</a:IsPrompt>
                <a:IsSmartArt>false</a:IsSmartArt>
                <a:PlaceholderType>3</a:PlaceholderType>
                <a:ShapeId>3</a:ShapeId>
                <a:ShapeViewElemId>0</a:ShapeViewElemId>
                <a:SmartArtInfo i:nil="true"/>
                <a:TextViewElemId>4</a:TextViewElemId>
              </a:EditShape>
            </a:EditShapes>
            <a:Hidden>false</a:Hidden>
            <a:IsTitleContentMaster>true</a:IsTitleContentMaster>
```

```
            <a:MainMasterId>2147483648</a:MainMasterId>
            <a:Notes>
              <a:Html>
                <a:Text>&lt;p class=nonListPara style='direction:ltr' lang=en-US
   style='language:en-US' align=left&gt;&lt;font face=Calibri&gt;&lt;img width=1 height=10
   style='visibility:hidden'&gt;&lt;/font&gt;&lt;/p&gt;</a:Text>
              </a:Html>
              <a:IsPrompt>true</a:IsPrompt>
            </a:Notes>
            <a:SlideId>256</a:SlideId>
            <a:Theme>
              <a:Accent1>
                <a:b>189</a:b>
                <a:g>129</a:g>
                <a:r>79</a:r>
              </a:Accent1>
              <a:Accent2>
                <a:b>77</a:b>
                <a:g>80</a:g>
                <a:r>192</a:r>
              </a:Accent2>
              <a:Accent3>
                <a:b>89</a:b>
                <a:g>187</a:g>
                <a:r>155</a:r>
              </a:Accent3>
              <a:Accent4>
                <a:b>162</a:b>
                <a:g>100</a:g>
                <a:r>128</a:r>
              </a:Accent4>
              <a:Accent5>
                <a:b>198</a:b>
                <a:g>172</a:g>
                <a:r>75</a:r>
              </a:Accent5>
              <a:Accent6>
                <a:b>70</a:b>
                <a:g>150</a:g>
                <a:r>247</a:r>
              </a:Accent6>
              <a:Dark1>
                <a:b>0</a:b>
                <a:g>0</a:g>
                <a:r>0</a:r>
              </a:Dark1>
              <a:Dark2>
                <a:b>125</a:b>
                <a:g>73</a:g>
                <a:r>31</a:r>
              </a:Dark2>
              <a:Light1>
                <a:b>255</a:b>
                <a:g>255</a:g>
                <a:r>255</a:r>
              </a:Light1>
              <a:Light2>
                <a:b>225</a:b>
                <a:g>236</a:g>
                <a:r>238</a:r>
              </a:Light2>
            </a:Theme>
            <a:ThumbnailViewElement>
              <a:Alt i:nil="true"/>
              <a:Clip>
                <a:Bottom>96</a:Bottom>
                <a:Left>0</a:Left>
                <a:Right>128</a:Right>
                <a:Top>0</a:Top>
```

```
                </a:Clip>
                <a:Html i:nil="true"/>
                <a:Id>1</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
                <a:Position>
                  <a:X>0</a:X>
                  <a:Y>0</a:Y>
                </a:Position>
                <a:Z>0</a:Z>
              </a:ThumbnailViewElement>
              <a:ViewElems>
                <a:ViewElement>
                  <a:Alt/>
                  <a:Clip>
                    <a:Bottom>205</a:Bottom>
                    <a:Left>0</a:Left>
                    <a:Right>407</a:Right>
                    <a:Top>0</a:Top>
                  </a:Clip>
                  <a:Html i:nil="true"/>
                  <a:Id>2</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
                  <a:Position>
                    <a:X>149</a:X>
                    <a:Y>8</a:Y>
                  </a:Position>
                  <a:Z>1</a:Z>
                </a:ViewElement>
                <a:ViewElement>
                  <a:Alt i:nil="true"/>
                  <a:Clip>
                    <a:Bottom>74</a:Bottom>
                    <a:Left>407</a:Left>
                    <a:Right>547</a:Right>
                    <a:Top>0</a:Top>
                  </a:Clip>
                  <a:Html i:nil="true"/>
                  <a:Id>3</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
                  <a:Position>
                    <a:X>245</a:X>
                    <a:Y>66</a:Y>
                  </a:Position>
                  <a:Z>2</a:Z>
                </a:ViewElement>
                <a:ViewElement>
                  <a:Alt i:nil="true"/>
                  <a:Clip>
                    <a:Bottom>24</a:Bottom>
                    <a:Left>547</a:Left>
                    <a:Right>708</a:Right>
                    <a:Top>0</a:Top>
                  </a:Clip>
                  <a:Html i:nil="true"/>
                  <a:Id>4</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
                  <a:Position>
                    <a:X>163</a:X>
                    <a:Y>232</a:Y>
                  </a:Position>
                  <a:Z>5</a:Z>
```

```
            </a:ViewElement>
            <a:ViewElement>
              <a:Alt i:nil="true"/>
              <a:Clip i:nil="true"/>
              <a:Html>&lt;div
style="position:absolute;top:0px;left:0px;width:620px;height:465px;background-
color:#FFFFFF"/&gt;</a:Html>
              <a:Id>0</a:Id>
              <a:ImgId i:nil="true"/>
              <a:Position>
                <a:X>0</a:X>
                <a:Y>0</a:Y>
              </a:Position>
              <a:Z>0</a:Z>
            </a:ViewElement>
          </a:ViewElems>
        </a:Result>
      </GetEditSlideResult>
    </GetEditSlideResponse>
  </s:Body>
</s:Envelope>
```

Next, the protocol client sends a request to the protocol server to modify the text of a shape on the presentation slide that was referenced in the previous step. The identifier of the shape, 2, is specified by the **ShapeId** element of the first element in the **EditShapes** element of the **EditSlide** element (section 2.2.4.29). The following **IPptEdit_ReplaceText_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <ReplaceText
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

<presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57
b5cc4aeda74fff96066a8267m</presentationId>
      <slideId>256</slideId>
      <shapeId>2</shapeId>
      <newText>&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-
US' align=center&gt;&lt;font size=6 face=Calibri color="#7293C9"&gt;&lt;span style='font-
variant:normal;text-transform:uppercase'&gt;&lt;b&gt;Fancy Title with
3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</newText>
    </ReplaceText>
  </s:Body>
</s:Envelope>
```

The protocol server responds with the result of the operation. The following **IPptEdit_ReplaceText_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <ReplaceTextResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
      <ReplaceTextResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:Error i:nil="true"/>
        <a:Result i:type="a:EditCommandResponse">
          <a:PresChanges>
            <a:AddedSlideInfos/>
            <a:AddedSlides/>
            <a:MainMasterIds i:nil="true"/>
            <a:ModifiedSlides>
              <a:EditSlideChanges>
```

```xml
                        <a:DelElems
xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
                        <a:Elems>
                          <a:ViewElement>
                            <a:Alt/>
                            <a:Clip>
                              <a:Bottom>205</a:Bottom>
                              <a:Left>0</a:Left>
                              <a:Right>407</a:Right>
                              <a:Top>0</a:Top>
                            </a:Clip>
                            <a:Html i:nil="true"/>
                            <a:Id>2</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
                            <a:Position>
                              <a:X>149</a:X>
                              <a:Y>8</a:Y>
                            </a:Position>
                            <a:Z>1</a:Z>
                          </a:ViewElement>
                          <a:ViewElement>
                            <a:Alt i:nil="true"/>
                            <a:Clip>
                              <a:Bottom>102</a:Bottom>
                              <a:Left>407</a:Left>
                              <a:Right>659</a:Right>
                              <a:Top>0</a:Top>
                            </a:Clip>
                            <a:Html i:nil="true"/>
                            <a:Id>3</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
                            <a:Position>
                              <a:X>199</a:X>
                              <a:Y>55</a:Y>
                            </a:Position>
                            <a:Z>2</a:Z>
                          </a:ViewElement>
                        </a:Elems>
                        <a:Hidden>false</a:Hidden>
                        <a:Id>256</a:Id>
                        <a:ModifiedShapes>
                          <a:EditShape>
                            <a:Alt i:nil="true"/>
                            <a:EditBounds>
                              <a:Bottom>140</a:Bottom>
                              <a:Left>46</a:Left>
                              <a:Right>573</a:Right>
                              <a:Top>41</a:Top>
                            </a:EditBounds>
                            <a:EditHtml>&lt;div class=defaultPHStyles style='font-size:32.0px;font-
family:Calibri;color:#7293C9;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara
style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6
face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-
transform:uppercase'&gt;&lt;b&gt;Fancy Title with
3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</a:EditHtml>
                            <a:FontSizeMapping>
                              <a:Size1>12</a:Size1>
                              <a:Size2>15</a:Size2>
                              <a:Size3>19</a:Size3>
                              <a:Size4>21</a:Size4>
                              <a:Size5>28</a:Size5>
                              <a:Size6>44</a:Size6>
                              <a:Size7>56</a:Size7>
                            </a:FontSizeMapping>
                            <a:IsPicture>false</a:IsPicture>
```

```
                <a:IsPlaceholder>true</a:IsPlaceholder>
                <a:IsPrompt>false</a:IsPrompt>
                <a:IsSmartArt>false</a:IsSmartArt>
                <a:PlaceholderType>2</a:PlaceholderType>
                <a:ShapeId>2</a:ShapeId>
                <a:ShapeViewElemId>2</a:ShapeViewElemId>
                <a:SmartArtInfo i:nil="true"/>
                <a:TextViewElemId>3</a:TextViewElemId>
              </a:EditShape>
            </a:ModifiedShapes>
            <a:Notes i:nil="true"/>
            <a:Refresh>false</a:Refresh>
            <a:Thumb>
              <a:Alt i:nil="true"/>
              <a:Clip>
                <a:Bottom>96</a:Bottom>
                <a:Left>659</a:Left>
                <a:Right>787</a:Right>
                <a:Top>0</a:Top>
              </a:Clip>
              <a:Html i:nil="true"/>
              <a:Id>5</a:Id>
  <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
              <a:Position>
                <a:X>0</a:X>
                <a:Y>0</a:Y>
              </a:Position>
              <a:Z>0</a:Z>
            </a:Thumb>
            <a:Title>Fancy Title with 3d.</a:Title>
          </a:EditSlideChanges>
        </a:ModifiedSlides>
        <a:Redo>false</a:Redo>
        <a:SlideOrder i:nil="true"/>
        <a:Undo>true</a:Undo>
      </a:PresChanges>
    </a:Result>
  </ReplaceTextResult>
</ReplaceTextResponse>
  </s:Body>
</s:Envelope>
```

Finally, the protocol client sends a request to the protocol server to save the changes made to the presentation and end the session. The following **IPptEdit_SaveAndClose_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveAndClose
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

<presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fmcf8e360c
9a82447c9a2ce13a5987d49cm</presentationId>
      <fReleaseLock>true</fReleaseLock>
      <fWaitForSave>true</fWaitForSave>
    </SaveAndClose>
  </s:Body>
</s:Envelope>
```

The protocol server responds with the result of the operation. The following **IPptEdit_SaveAndClose_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <SaveAndCloseResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
      <SaveAndCloseResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:Error i:nil="true"/>
        <a:Result i:type="a:EditCommandResponse">
          <a:PresChanges i:nil="true"/>
        </a:Result>
      </SaveAndCloseResult>
    </SaveAndCloseResponse>
  </s:Body>
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

The **Html** child element of **ViewElement** (section 2.2.4.51), the **Html** child element of **Notes** (section 2.2.4.37), and the **EditHtml** child element of EditShape (section 2.2.4.28) contain [HTML] fragments. HTML fragments are susceptible to **cross-site scripting** attacks. Implementers are advised to sanitize these HTML fragments when generating or processing these elements.

Some operations which specify a change to a **presentation** such as **DeleteSlide** (section 3.1.4.17) are susceptible to **cross-site request forgery** attacks. Implementers are advised to use a **canary**<101> to mitigate operations from this type of attack.

There are no additional security considerations that are specific to this protocol. General security considerations that pertain to [RFC2822] apply.

5.2 Index of Security Parameters

None.

6   Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions
xmlns:tns4="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPoint
EditServerInternalService/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema
xmlns:tns5="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/Imports"
targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPoint
EditServerInternalService/Imports">
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interfa
ce.Shared"/>
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.In
terface"/>
      <xs:import namespace="http://schemas.datacontract.org/2004/07/p"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
      <xs:import
namespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditSe
rverInternalService/"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="IPptEdit">
    <wsdl:operation name="LogULS">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/LogULS" message="tns4:IPptEdit_LogULS_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/LogULSResponse" message="tns4:IPptEdit_LogULS_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetPresentationId">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationId"
message="tns4:IPptEdit_GetPresentationId_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationIdResponse"
message="tns4:IPptEdit_GetPresentationId_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetCoauthUpdates">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdates"
message="tns4:IPptEdit_GetCoauthUpdates_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdatesResponse"
message="tns4:IPptEdit_GetCoauthUpdates_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEditPresInfo">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfo"
message="tns4:IPptEdit_GetEditPresInfo_InputMessage"/>
```

```
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoResponse"
message="tns4:IPptEdit_GetEditPresInfo_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEditPresInfoGetEditSlideById">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEditPresResources">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresResources"
message="tns4:IPptEdit_GetEditPresResources_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresResourcesResponse"
message="tns4:IPptEdit_GetEditPresResources_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetEditSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlide"
message="tns4:IPptEdit_GetEditSlide_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlideResponse"
message="tns4:IPptEdit_GetEditSlide_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="MoveSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlide" message="tns4:IPptEdit_MoveSlide_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlideResponse"
message="tns4:IPptEdit_MoveSlide_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="InsertSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlide"
message="tns4:IPptEdit_InsertSlide_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlideResponse"
message="tns4:IPptEdit_InsertSlide_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ReplaceText">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceText"
message="tns4:IPptEdit_ReplaceText_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceTextResponse"
message="tns4:IPptEdit_ReplaceText_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetAnimation">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimation"
message="tns4:IPptEdit_SetAnimation_InputMessage"/>
```

```
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimationResponse"
message="tns4:IPptEdit_SetAnimation_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetTransition">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransition"
message="tns4:IPptEdit_SetTransition_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionResponse"
message="tns4:IPptEdit_SetTransition_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetTransitionApplyAll">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAll"
message="tns4:IPptEdit_SetTransitionApplyAll_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAllResponse"
message="tns4:IPptEdit_SetTransitionApplyAll_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ReorderAnimation">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimation"
message="tns4:IPptEdit_ReorderAnimation_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimationResponse"
message="tns4:IPptEdit_ReorderAnimation_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ClearPlaceholder">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholder"
message="tns4:IPptEdit_ClearPlaceholder_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholderResponse"
message="tns4:IPptEdit_ClearPlaceholder_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlide"
message="tns4:IPptEdit_DeleteSlide_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlideResponse"
message="tns4:IPptEdit_DeleteSlide_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DuplicateSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlide"
message="tns4:IPptEdit_DuplicateSlide_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlideResponse"
message="tns4:IPptEdit_DuplicateSlide_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ShowHideSlide">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/ShowHideSlide"
message="tns4:IPptEdit ShowHideSlide InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShowHideSlideResponse"
message="tns4:IPptEdit_ShowHideSlide_OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="ReplaceNotes">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotes"
message="tns4:IPptEdit_ReplaceNotes_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotesResponse"
message="tns4:IPptEdit ReplaceNotes OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="Undo">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Undo" message="tns4:IPptEdit_Undo_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UndoResponse" message="tns4:IPptEdit_Undo_OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="Redo">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Redo" message="tns4:IPptEdit_Redo_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RedoResponse" message="tns4:IPptEdit_Redo_OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="ChangePictureStyle">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangePictureStyle"
message="tns4:IPptEdit_ChangePictureStyle_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangePictureStyleResponse"
message="tns4:IPptEdit_ChangePictureStyle_OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="ResetPicture">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetPicture"
message="tns4:IPptEdit_ResetPicture_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetPictureResponse"
message="tns4:IPptEdit ResetPicture OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="MoveShape">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveShape" message="tns4:IPptEdit_MoveShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveShapeResponse"
message="tns4:IPptEdit_MoveShape_OutputMessage"/>
     </wsdl:operation>
     <wsdl:operation name="ResizeShape">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResizeShape"
message="tns4:IPptEdit_ResizeShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/ResizeShapeResponse"
message="tns4:IPptEdit ResizeShape OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="RotateShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RotateShape"
message="tns4:IPptEdit RotateShape InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RotateShapeResponse"
message="tns4:IPptEdit_RotateShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="FlipShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/FlipShape" message="tns4:IPptEdit_FlipShape_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/FlipShapeResponse"
message="tns4:IPptEdit_FlipShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="InsertShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShape"
message="tns4:IPptEdit InsertShape InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShapeResponse"
message="tns4:IPptEdit_InsertShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="DuplicateShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShape"
message="tns4:IPptEdit_DuplicateShape_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShapeResponse"
message="tns4:IPptEdit_DuplicateShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ArrangeShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShape"
message="tns4:IPptEdit_ArrangeShape_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShapeResponse"
message="tns4:IPptEdit_ArrangeShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="UngroupShape">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShape"
message="tns4:IPptEdit_UngroupShape_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShapeResponse"
message="tns4:IPptEdit_UngroupShape_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeStyle">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyle"
message="tns4:IPptEdit_ApplyShapeStyle_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/ApplyShapeStyleResponse"
message="tns4:IPptEdit ApplyShapeStyle OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeFill">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFill"
message="tns4:IPptEdit ApplyShapeFill InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFillResponse"
message="tns4:IPptEdit_ApplyShapeFill_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveShapeFill">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFill"
message="tns4:IPptEdit_RemoveShapeFill_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFillResponse"
message="tns4:IPptEdit RemoveShapeFill OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeOutlineColor">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineColor"
message="tns4:IPptEdit_ApplyShapeOutlineColor_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineColorResponse"
message="tns4:IPptEdit_ApplyShapeOutlineColor_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeOutlineWidth">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineWidth"
message="tns4:IPptEdit_ApplyShapeOutlineWidth_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineWidthResponse"
message="tns4:IPptEdit_ApplyShapeOutlineWidth_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeOutlineDashStyle">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle"
message="tns4:IPptEdit_ApplyShapeOutlineDashStyle_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineDashStyleResponse"
message="tns4:IPptEdit ApplyShapeOutlineDashStyle OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeOutlineEndStyle">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle"
message="tns4:IPptEdit ApplyShapeOutlineEndStyle InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineEndStyleResponse"
message="tns4:IPptEdit ApplyShapeOutlineEndStyle OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveShapeOutline">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeOutline"
message="tns4:IPptEdit RemoveShapeOutline InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```
ServerInternalService/IPptEdit/RemoveShapeOutlineResponse"
message="tns4:IPptEdit_RemoveShapeOutline_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="SaveAndClose">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SaveAndClose"
message="tns4:IPptEdit_SaveAndClose_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SaveAndCloseResponse"
message="tns4:IPptEdit_SaveAndClose_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="UpdateCanary">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanary"
message="tns4:IPptEdit_UpdateCanary_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanaryResponse"
message="tns4:IPptEdit_UpdateCanary_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="Print">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Print" message="tns4:IPptEdit_Print_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PrintResponse" message="tns4:IPptEdit_Print_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ChangeSmartArtLayout">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayout"
message="tns4:IPptEdit_ChangeSmartArtLayout_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse"
message="tns4:IPptEdit_ChangeSmartArtLayout_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ChangeSmartArtColor">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColor"
message="tns4:IPptEdit_ChangeSmartArtColor_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColorResponse"
message="tns4:IPptEdit_ChangeSmartArtColor_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ChangeSmartArtStyle">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyle"
message="tns4:IPptEdit_ChangeSmartArtStyle_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyleResponse"
message="tns4:IPptEdit_ChangeSmartArtStyle_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="InsertSmartArt">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArt"
message="tns4:IPptEdit_InsertSmartArt_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArtResponse"
message="tns4:IPptEdit_InsertSmartArt_OutputMessage"/>
```

```
      </wsdl:operation>
      <wsdl:operation name="ResetSmartArt">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArt"
message="tns4:IPptEdit_ResetSmartArt_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArtResponse"
message="tns4:IPptEdit_ResetSmartArt_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ReverseSmartArt">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArt"
message="tns4:IPptEdit_ReverseSmartArt_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArtResponse"
message="tns4:IPptEdit_ReverseSmartArt_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ApplyTheme">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyTheme" message="tns4:IPptEdit_ApplyTheme_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyThemeResponse"
message="tns4:IPptEdit_ApplyTheme_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="SetWordArt">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArt" message="tns4:IPptEdit_SetWordArt_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArtResponse"
message="tns4:IPptEdit_SetWordArt_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="InsertClipart">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipart"
message="tns4:IPptEdit_InsertClipart_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipartResponse"
message="tns4:IPptEdit_InsertClipart_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="PastePicture">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PastePicture"
message="tns4:IPptEdit_PastePicture_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PastePictureResponse"
message="tns4:IPptEdit_PastePicture_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ShapeFormatPainting">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPainting"
message="tns4:IPptEdit_ShapeFormatPainting_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPaintingResponse"
message="tns4:IPptEdit_ShapeFormatPainting_OutputMessage"/>
      </wsdl:operation>
```

```
      <wsdl:operation name="AddComment">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddComment" message="tns4:IPptEdit_AddComment_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddCommentResponse"
message="tns4:IPptEdit_AddComment_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="DeleteComment">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteComment"
message="tns4:IPptEdit_DeleteComment_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteCommentResponse"
message="tns4:IPptEdit_DeleteComment_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="EditComment">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditComment"
message="tns4:IPptEdit_EditComment_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditCommentResponse"
message="tns4:IPptEdit_EditComment_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="MoveComment">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveComment"
message="tns4:IPptEdit MoveComment InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveCommentResponse"
message="tns4:IPptEdit_MoveComment_OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="SetShapeBold">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBold"
message="tns4:IPptEdit_SetShapeBold_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBoldResponse"
message="tns4:IPptEdit SetShapeBold OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="SetShapeItalic">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeItalic"
message="tns4:IPptEdit SetShapeItalic InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeItalicResponse"
message="tns4:IPptEdit SetShapeItalic OutputMessage"/>
      </wsdl:operation>
      <wsdl:operation name="SetShapeUnderline">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeUnderline"
message="tns4:IPptEdit_SetShapeUnderline_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeUnderlineResponse"
message="tns4:IPptEdit_SetShapeUnderline_OutputMessage"/>
      </wsdl:operation>
```

```
    <wsdl:operation name="SetShapeAlignment">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeAlignment"
message="tns4:IPptEdit_SetShapeAlignment_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeAlignmentResponse"
message="tns4:IPptEdit_SetShapeAlignment_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetShapeFontName">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontName"
message="tns4:IPptEdit_SetShapeFontName_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontNameResponse"
message="tns4:IPptEdit_SetShapeFontName_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetShapeFontSize">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontSize"
message="tns4:IPptEdit_SetShapeFontSize_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontSizeResponse"
message="tns4:IPptEdit_SetShapeFontSize_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetShapeFontColor">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontColor"
message="tns4:IPptEdit_SetShapeFontColor_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontColorResponse"
message="tns4:IPptEdit_SetShapeFontColor_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetShapeBullet">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBullet"
message="tns4:IPptEdit_SetShapeBullet_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBulletResponse"
message="tns4:IPptEdit_SetShapeBullet_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetShapeTextDirection">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeTextDirection"
message="tns4:IPptEdit_SetShapeTextDirection_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeTextDirectionResponse"
message="tns4:IPptEdit_SetShapeTextDirection_OutputMessage"/>
    </wsdl:operation>
    <wsdl:operation name="ChangeLayout">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeLayout"
message="tns4:IPptEdit_ChangeLayout_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeLayoutResponse"
message="tns4:IPptEdit_ChangeLayout_OutputMessage"/>
```

```
      </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="DefaultBinding_IPptEdit" type="tns4:IPptEdit">
      <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
      <wsdl:operation name="LogULS">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/LogULS" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetPresentationId">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetPresentationId" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetCoauthUpdates">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetCoauthUpdates" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetEditPresInfo">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetEditPresInfo" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetEditPresInfoGetEditSlideById">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetEditPresInfoGetEditSlideById" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="GetEditPresResources">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetEditPresResources" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
```

```
    </wsdl:operation>
    <wsdl:operation name="GetEditSlide">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/GetEditSlide" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MoveSlide">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/MoveSlide" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="InsertSlide">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/InsertSlide" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ReplaceText">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ReplaceText" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetAnimation">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetAnimation" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetTransition">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetTransition" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetTransitionApplyAll">
```

```
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetTransitionApplyAll" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ReorderAnimation">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ReorderAnimation" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ClearPlaceholder">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ClearPlaceholder" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DeleteSlide">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/DeleteSlide" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DuplicateSlide">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/DuplicateSlide" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ShowHideSlide">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ShowHideSlide" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ReplaceNotes">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ReplaceNotes" style="document"/>
```

```
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="Undo">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/Undo" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="Redo">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/Redo" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ChangePictureStyle">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ChangePictureStyle" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ResetPicture">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ResetPicture" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="MoveShape">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/MoveShape" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ResizeShape">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ResizeShape" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
```

```
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="RotateShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/RotateShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="FlipShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/FlipShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="InsertShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/InsertShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DuplicateShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/DuplicateShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ArrangeShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ArrangeShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="UngroupShape">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/UngroupShape" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
```

```
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeStyle">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeStyle" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeFill">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeFill" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="RemoveShapeFill">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/RemoveShapeFill" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeOutlineColor">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeOutlineColor" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeOutlineWidth">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeOutlineWidth" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeOutlineDashStyle">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeOutlineDashStyle" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ApplyShapeOutlineEndStyle">
```

```
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyShapeOutlineEndStyle" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="RemoveShapeOutline">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/RemoveShapeOutline" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SaveAndClose">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SaveAndClose" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="UpdateCanary">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/UpdateCanary" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="Print">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/Print" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ChangeSmartArtLayout">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ChangeSmartArtLayout" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ChangeSmartArtColor">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ChangeSmartArtColor" style="document"/>
```

```
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ChangeSmartArtStyle">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ChangeSmartArtStyle" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="InsertSmartArt">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/InsertSmartArt" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ResetSmartArt">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ResetSmartArt" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ReverseSmartArt">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ReverseSmartArt" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ApplyTheme">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ApplyTheme" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetWordArt">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetWordArt" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
```

```
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="InsertClipart">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/InsertClipart" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="PastePicture">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/PastePicture" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="ShapeFormatPainting">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ShapeFormatPainting" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="AddComment">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/AddComment" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="DeleteComment">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/DeleteComment" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="EditComment">
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/EditComment" style="document"/>
          <wsdl:input>
            <soap:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap:body use="literal"/>
          </wsdl:output>
```

```
      </wsdl:operation>
      <wsdl:operation name="MoveComment">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/MoveComment" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeBold">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeBold" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeItalic">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeItalic" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeUnderline">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeUnderline" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeAlignment">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeAlignment" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeFontName">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeFontName" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeFontSize">
```

```
          <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeFontSize" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeFontColor">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeFontColor" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeBullet">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeBullet" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="SetShapeTextDirection">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/SetShapeTextDirection" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="ChangeLayout">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditS
erverInternalService/IPptEdit/ChangeLayout" style="document"/>
        <wsdl:input>
          <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
    </wsdl:binding>
    <wsdl:message name="IPptEdit_AddComment_InputMessage">
      <wsdl:part name="parameters" element="tns4:AddComment"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_AddComment_OutputMessage">
      <wsdl:part name="parameters" element="tns4:AddCommentResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeFill_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeFill"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeFill_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeFillResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineColor_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineColor"/>
```

```
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineColor_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineColorResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineDashStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineDashStyleResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineEndStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineEndStyleResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineWidth_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineWidth"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineWidth_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineWidthResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeStyle_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeStyle_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyShapeStyleResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyTheme_InputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyTheme"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyTheme_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ApplyThemeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ArrangeShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:ArrangeShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ArrangeShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ArrangeShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeLayout_InputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeLayout"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeLayout_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeLayoutResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangePictureStyle_InputMessage">
      <wsdl:part name="parameters" element="tns4:ChangePictureStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangePictureStyle_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ChangePictureStyleResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtColor_InputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtColor"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtColor_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtColorResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtLayout_InputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtLayout"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtLayout_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtLayoutResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtStyle_InputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ChangeSmartArtStyle_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ChangeSmartArtStyleResponse"/>
```

```
    </wsdl:message>
    <wsdl:message name="IPptEdit_ClearPlaceholder_InputMessage">
      <wsdl:part name="parameters" element="tns4:ClearPlaceholder"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ClearPlaceholder_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ClearPlaceholderResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DeleteComment_InputMessage">
      <wsdl:part name="parameters" element="tns4:DeleteComment"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DeleteComment_OutputMessage">
      <wsdl:part name="parameters" element="tns4:DeleteCommentResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DeleteSlide_InputMessage">
      <wsdl:part name="parameters" element="tns4:DeleteSlide"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DeleteSlide_OutputMessage">
      <wsdl:part name="parameters" element="tns4:DeleteSlideResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DuplicateShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:DuplicateShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DuplicateShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:DuplicateShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DuplicateSlide_InputMessage">
      <wsdl:part name="parameters" element="tns4:DuplicateSlide"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_DuplicateSlide_OutputMessage">
      <wsdl:part name="parameters" element="tns4:DuplicateSlideResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_EditComment_InputMessage">
      <wsdl:part name="parameters" element="tns4:EditComment"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_EditComment_OutputMessage">
      <wsdl:part name="parameters" element="tns4:EditCommentResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_FlipShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:FlipShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_FlipShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:FlipShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetCoauthUpdates_InputMessage">
      <wsdl:part name="parameters" element="tns4:GetCoauthUpdates"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetCoauthUpdates_OutputMessage">
      <wsdl:part name="parameters" element="tns4:GetCoauthUpdatesResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresInfo_InputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresInfo"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresInfo_OutputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresInfoResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresInfoGetEditSlideById"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresInfoGetEditSlideByIdResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresResources_InputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresResources"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditPresResources_OutputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditPresResourcesResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_GetEditSlide_InputMessage">
      <wsdl:part name="parameters" element="tns4:GetEditSlide"/>
```

```
      </wsdl:message>
      <wsdl:message name="IPptEdit_GetEditSlide_OutputMessage">
        <wsdl:part name="parameters" element="tns4:GetEditSlideResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_GetPresentationId_InputMessage">
        <wsdl:part name="parameters" element="tns4:GetPresentationId"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_GetPresentationId_OutputMessage">
        <wsdl:part name="parameters" element="tns4:GetPresentationIdResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertClipart_InputMessage">
        <wsdl:part name="parameters" element="tns4:InsertClipart"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertClipart_OutputMessage">
        <wsdl:part name="parameters" element="tns4:InsertClipartResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertShape_InputMessage">
        <wsdl:part name="parameters" element="tns4:InsertShape"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertShape_OutputMessage">
        <wsdl:part name="parameters" element="tns4:InsertShapeResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertSlide_InputMessage">
        <wsdl:part name="parameters" element="tns4:InsertSlide"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertSlide_OutputMessage">
        <wsdl:part name="parameters" element="tns4:InsertSlideResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertSmartArt_InputMessage">
        <wsdl:part name="parameters" element="tns4:InsertSmartArt"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_InsertSmartArt_OutputMessage">
        <wsdl:part name="parameters" element="tns4:InsertSmartArtResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_LogULS_InputMessage">
        <wsdl:part name="parameters" element="tns4:LogULS"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_LogULS_OutputMessage">
        <wsdl:part name="parameters" element="tns4:LogULSResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveComment_InputMessage">
        <wsdl:part name="parameters" element="tns4:MoveComment"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveComment_OutputMessage">
        <wsdl:part name="parameters" element="tns4:MoveCommentResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveShape_InputMessage">
        <wsdl:part name="parameters" element="tns4:MoveShape"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveShape_OutputMessage">
        <wsdl:part name="parameters" element="tns4:MoveShapeResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveSlide_InputMessage">
        <wsdl:part name="parameters" element="tns4:MoveSlide"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_MoveSlide_OutputMessage">
        <wsdl:part name="parameters" element="tns4:MoveSlideResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_PastePicture_InputMessage">
        <wsdl:part name="parameters" element="tns4:PastePicture"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_PastePicture_OutputMessage">
        <wsdl:part name="parameters" element="tns4:PastePictureResponse"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_Print_InputMessage">
        <wsdl:part name="parameters" element="tns4:Print"/>
      </wsdl:message>
      <wsdl:message name="IPptEdit_Print_OutputMessage">
        <wsdl:part name="parameters" element="tns4:PrintResponse"/>
```

```
    </wsdl:message>
    <wsdl:message name="IPptEdit_Redo_InputMessage">
      <wsdl:part name="parameters" element="tns4:Redo"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_Redo_OutputMessage">
      <wsdl:part name="parameters" element="tns4:RedoResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RemoveShapeFill_InputMessage">
      <wsdl:part name="parameters" element="tns4:RemoveShapeFill"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RemoveShapeFill_OutputMessage">
      <wsdl:part name="parameters" element="tns4:RemoveShapeFillResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RemoveShapeOutline_InputMessage">
      <wsdl:part name="parameters" element="tns4:RemoveShapeOutline"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RemoveShapeOutline_OutputMessage">
      <wsdl:part name="parameters" element="tns4:RemoveShapeOutlineResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReorderAnimation_InputMessage">
      <wsdl:part name="parameters" element="tns4:ReorderAnimation"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReorderAnimation_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ReorderAnimationResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReplaceNotes_InputMessage">
      <wsdl:part name="parameters" element="tns4:ReplaceNotes"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReplaceNotes_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ReplaceNotesResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReplaceText_InputMessage">
      <wsdl:part name="parameters" element="tns4:ReplaceText"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReplaceText_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ReplaceTextResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResetPicture_InputMessage">
      <wsdl:part name="parameters" element="tns4:ResetPicture"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResetPicture_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ResetPictureResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResetSmartArt_InputMessage">
      <wsdl:part name="parameters" element="tns4:ResetSmartArt"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResetSmartArt_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ResetSmartArtResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResizeShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:ResizeShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ResizeShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ResizeShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReverseSmartArt_InputMessage">
      <wsdl:part name="parameters" element="tns4:ReverseSmartArt"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ReverseSmartArt_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ReverseSmartArtResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RotateShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:RotateShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_RotateShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:RotateShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SaveAndClose_InputMessage">
      <wsdl:part name="parameters" element="tns4:SaveAndClose"/>
```

```
    </wsdl:message>
    <wsdl:message name="IPptEdit_SaveAndClose_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SaveAndCloseResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetAnimation_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetAnimation"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetAnimation_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetAnimationResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetShapeAlignment InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeAlignment"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeAlignment_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeAlignmentResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetShapeBold InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeBold"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeBold_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeBoldResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetShapeBullet InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeBullet"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeBullet_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeBulletResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetShapeFontColor InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontColor"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeFontColor_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontColorResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeFontName_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontName"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeFontName_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontNameResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeFontSize_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontSize"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeFontSize_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeFontSizeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeItalic_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeItalic"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeItalic_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeItalicResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeTextDirection_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeTextDirection"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeTextDirection_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeTextDirectionResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetShapeUnderline InputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeUnderline"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetShapeUnderline_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetShapeUnderlineResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit SetTransition InputMessage">
      <wsdl:part name="parameters" element="tns4:SetTransition"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetTransition_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetTransitionResponse"/>
```

```
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetTransitionApplyAll_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetTransitionApplyAll"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetTransitionApplyAll_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetTransitionApplyAllResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetWordArt_InputMessage">
      <wsdl:part name="parameters" element="tns4:SetWordArt"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_SetWordArt_OutputMessage">
      <wsdl:part name="parameters" element="tns4:SetWordArtResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ShapeFormatPainting_InputMessage">
      <wsdl:part name="parameters" element="tns4:ShapeFormatPainting"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ShapeFormatPainting_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ShapeFormatPaintingResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ShowHideSlide_InputMessage">
      <wsdl:part name="parameters" element="tns4:ShowHideSlide"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ShowHideSlide_OutputMessage">
      <wsdl:part name="parameters" element="tns4:ShowHideSlideResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_Undo_InputMessage">
      <wsdl:part name="parameters" element="tns4:Undo"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_Undo_OutputMessage">
      <wsdl:part name="parameters" element="tns4:UndoResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_UngroupShape_InputMessage">
      <wsdl:part name="parameters" element="tns4:UngroupShape"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_UngroupShape_OutputMessage">
      <wsdl:part name="parameters" element="tns4:UngroupShapeResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_UpdateCanary_InputMessage">
      <wsdl:part name="parameters" element="tns4:UpdateCanary"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_UpdateCanary_OutputMessage">
      <wsdl:part name="parameters" element="tns4:UpdateCanaryResponse"/>
    </wsdl:message>
  </wsdl:definitions>
```

7   Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07 /Microsoft.Office.Server.Powerpoint.Interface.Shared	tns	7.1
http://schemas.datacontract.org/2004/07 /Microsoft.Office.Server.Powerpoint.Pipe.Interface	tns1	7.2
http://schemas.datacontract.org/2004/07/p	tns2	7.3
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q3	7.4
http://schemas.microsoft.com/2003/10/Serialization/	tns3	7.5
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices /PowerPointEditServerInternalService/	tns4	7.6

For ease of implementation, the following sections provide the full XML schema for this protocol.

7.1   http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interfa
ce.Shared" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.I
nterface.Shared" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="ErrorCode">
    <xs:restriction base="xs:string">
      <xs:enumeration value="ErrorRESERVEDSuccess"/>
      <xs:enumeration value="ErrorRESERVEDUnknown"/>
      <xs:enumeration value="ErrorCannotOpenDocumentFileType"/>
      <xs:enumeration value="ErrorCannotOpenDocumentIRM"/>
      <xs:enumeration value="ErrorCannotOpenDocumentPassword"/>
      <xs:enumeration value="ErrorCannotOpenDocument"/>
      <xs:enumeration value="ErrorCannotInstallFonts"/>
      <xs:enumeration value="ErrorCannotConvertModifyPassword"/>
      <xs:enumeration value="ErrorCannotComposeSlideParse"/>
      <xs:enumeration value="ErrorCannotComposeSlideUnexpected"/>
      <xs:enumeration value="ErrorWacConversionFailure"/>
      <xs:enumeration value="ErrorResourceNotGenerated"/>
      <xs:enumeration value="ErrorGenericSlideCorruption"/>
      <xs:enumeration value="ErrorFileNotFound"/>
      <xs:enumeration value="ErrorGeneralUnknown"/>
      <xs:enumeration value="ErrorFailedToOpenDocument"/>
      <xs:enumeration value="ErrorFailedToRetrieveResource"/>
      <xs:enumeration value="ErrorFailedToRenderDocument"/>
      <xs:enumeration value="ErrorFailedToRenderSlide"/>
      <xs:enumeration value="ErrorFailedToSaveDocument"/>
      <xs:enumeration value="ErrorCannotSaveDocument"/>
      <xs:enumeration value="ErrorInvalidCommand"/>
      <xs:enumeration value="ErrorDocVersionMismatch"/>
      <xs:enumeration value="ErrorCannotAcquirePptEditLock"/>
      <xs:enumeration value="ErrorRequiresCheckout"/>
      <xs:enumeration value="ErrorLockedForOfflineCheckout"/>
      <xs:enumeration value="ErrorLockedByAnotherUser"/>
      <xs:enumeration value="ErrorAccessDenied"/>
      <xs:enumeration value="ErrorNoLicense"/>
      <xs:enumeration value="ErrorRequestTooBig"/>
```

```
        <xs:enumeration value="ErrorTextTooBig"/>
        <xs:enumeration value="ErrorTryAgain"/>
        <xs:enumeration value="ErrorUnexpected"/>
        <xs:enumeration value="ErrorCannotOpenDocumentMacro"/>
        <xs:enumeration value="ErrorCannotOpenDocumentFinal"/>
        <xs:enumeration value="ErrorCannotOpenDocumentSigned"/>
        <xs:enumeration value="ErrorCannotOpenEmbeddedFonts"/>
        <xs:enumeration value="ErrorNoAvailableEditAppServer"/>
        <xs:enumeration value="ErrorServiceUnavailable"/>
        <xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
        <xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
        <xs:enumeration value="ErrorCannotOpenDocumentGatekeeperFailure"/>
        <xs:enumeration value="ErrorEditWorkerTimeout"/>
        <xs:enumeration value="ErrorEditSlideCorruption"/>
        <xs:enumeration value="ErrorServiceBusy"/>
        <xs:enumeration value="ErrorClipartCannotConnect"/>
        <xs:enumeration value="ErrorClipartCannotDownload"/>
        <xs:enumeration value="ErrorMediaNotEnabled"/>
        <xs:enumeration value="ErrorUnsupportedMediaFormat"/>
        <xs:enumeration value="ErrorLinkedMediaNotEnabled"/>
        <xs:enumeration value="ErrorUnsupportedLinkTarget"/>
        <xs:enumeration value="ErrorEmbeddedMediaNotEnabled"/>
        <xs:enumeration value="ErrorEmbeddedMediaExceedsMaxSize"/>
        <xs:enumeration value="ErrorTranscodingNotEnabled"/>
        <xs:enumeration value="ErrorMediaUnavailable"/>
        <xs:enumeration value="ErrorCannotOpenODPDocumentPassword"/>
        <xs:enumeration value="ErrorLocalChangeLostDueToCoautherEdit"/>
        <xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
        <xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
        <xs:enumeration value="ErrorInProgress"/>
        <xs:enumeration value="ErrorImageTooLarge"/>
        <xs:enumeration value="ErrorImageWrongFormat"/>
        <xs:enumeration value="ErrorImageNoAccess"/>
        <xs:enumeration value="ErrorWacItemRetrievalDocumentOutputNotFound"/>
        <xs:enumeration value="ErrorWacItemRetrievalAccessDenied"/>
        <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamDirty"/>
        <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamClean"/>
        <xs:enumeration value="ErrorWacItemRetrievalUnknownError"/>
        <xs:enumeration value="ErrorWacConversionManagerDoesNotSupportThisRequest"/>
        <xs:enumeration value="ErrorWacConversionCannotFindSourceDocument"/>
        <xs:enumeration value="ErrorWacConversionWorkerException"/>
        <xs:enumeration value="ErrorWacConversionWorkerCrashed"/>
        <xs:enumeration value="ErrorWacConversionWorkerHung"/>
        <xs:enumeration value="ErrorWacConversionUnknownResponse"/>
        <xs:enumeration value="ErrorWacConversionUnknownError"/>
        <xs:enumeration value="ErrorWacConversionFirstServerResult"/>
        <xs:enumeration value="ErrorCannotOpenDocumentWrongExt"/>
        <xs:enumeration value="ErrorCannotOpenDocumentStgDocFileCorrupt"/>
        <xs:enumeration value="ErrorCannotOpenDocumentStgFileAlreadyExists"/>
        <xs:enumeration value="ErrorCannotOpenDocumentMmcfPackagePartNotFound"/>
        <xs:enumeration value="ErrorCannotOpenDocumentArchiveError"/>
        <xs:enumeration value="ErrorCannotPastePictureCannotCreateUrl"/>
        <xs:enumeration value="ErrorCannotPastePictureInvalidResponse"/>
        <xs:enumeration value="ErrorCannotPastePictureNotFound"/>
        <xs:enumeration value="ErrorCannotPastePictureResponseEmpty"/>
        <xs:enumeration value="ErrorCannotPastePictureUnexpectedStatusCode"/>
        <xs:enumeration value="ErrorCannotPastePictureUnexpectedWebException"/>
        <xs:enumeration value="ErrorRESERVEDLastError"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:element name="ErrorCode" nillable="true" type="tns:ErrorCode"/>
  </xs:schema>
```

7.2 http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint. Pipe.Interface Schema

```
<?xml version="1.0" encoding="UTF-8"?>
```

```xml
<xs:schema
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.I
nterface" elementFormDefault="qualified"
targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.P
ipe.Interface" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:simpleType name="ClientActions">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="None"/>
          <xs:enumeration value="Dismiss"/>
          <xs:enumeration value="Close"/>
          <xs:enumeration value="OpenInClient"/>
          <xs:enumeration value="Refresh"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="ClientActions" nillable="true" type="tns1:ClientActions"/>
</xs:schema>
```

7.3   http://schemas.datacontract.org/2004/07/p Schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns2="http://schemas.datacontract.org/2004/07/p"
elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/p"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ServiceResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="Error" nillable="true" type="tns2:ServiceError"/>
      <xs:element minOccurs="0" name="Result" nillable="true" type="xs:anyType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ServiceResult" nillable="true" type="tns2:ServiceResult"/>
  <xs:complexType name="ServiceError">
    <xs:sequence>
      <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interfa
ce.Shared" minOccurs="0" name="Code" type="tns:ErrorCode"/>
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.I
nterface" minOccurs="0" name="RecommendedActions" type="tns1:ClientActions"/>
      <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Type" type="tns2:ServiceErrorType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ServiceError" nillable="true" type="tns2:ServiceError"/>
  <xs:simpleType name="ServiceErrorType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="UnknownError"/>
      <xs:enumeration value="ApplicationError"/>
      <xs:enumeration value="Timeout"/>
      <xs:enumeration value="ServiceBusy"/>
      <xs:enumeration value="SessionFull"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ServiceErrorType" nillable="true" type="tns2:ServiceErrorType"/>
  <xs:complexType name="CoauthUpdate">
    <xs:sequence>
      <xs:element minOccurs="0" name="State" nillable="true" type="tns2:CoauthState"/>
      <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="CoauthUpdate" nillable="true" type="tns2:CoauthUpdate"/>
  <xs:complexType name="CoauthState">
```

```xml
    <xs:sequence>
      <xs:element minOccurs="0" name="cs" type="xs:int"/>
      <xs:element minOccurs="0" name="et" nillable="true" type="tns2:ArrayOfEditorInfo"/>
      <xs:element minOccurs="0" name="lsave" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="lsmce" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="lsum" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="meid" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sui" nillable="true" type="tns2:ContentUpdateInfo"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="CoauthState" nillable="true" type="tns2:CoauthState"/>
  <xs:complexType name="ArrayOfEditorInfo">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="EditorInfo" nillable="true"
type="tns2:EditorInfo"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfEditorInfo" nillable="true" type="tns2:ArrayOfEditorInfo"/>
  <xs:complexType name="EditorInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ID" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="SIPAddress" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="TimeOut" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="EditorInfo" nillable="true" type="tns2:EditorInfo"/>
  <xs:complexType name="ContentUpdateInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="lplu" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="redo" type="xs:boolean"/>
      <xs:element minOccurs="0" name="sui" nillable="true"
type="tns2:ArrayOfSlideUpdateInfo"/>
      <xs:element minOccurs="0" name="undo" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
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```
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      <xs:element minOccurs="0" name="Rtl" type="xs:boolean"/>
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type="tns2:ArrayOfMainMasterResourcesFe"/>
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```

```
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type="tns2:ArrayOfStyleGalleryItem"/>
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type="tns2:ArrayOfStyleGalleryItem"/>
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type="tns2:ArrayOfEditSlide"/>
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type="tns2:SlideIdList"/>
        <xs:element minOccurs="0" name="ModifiedSlides" nillable="true"
type="tns2:ArrayOfEditSlideChanges"/>
        <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
        <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns2:SlideIdList"/>
        <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="EditPresentationChanges" nillable="true"
type="tns2:EditPresentationChanges"/>
    <xs:complexType name="ArrayOfEditSlide">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true"
type="tns2:EditSlide"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfEditSlide" nillable="true" type="tns2:ArrayOfEditSlide"/>
    <xs:complexType name="ArrayOfEditSlideChanges">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true"
type="tns2:EditSlideChanges"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfEditSlideChanges" nillable="true"
type="tns2:ArrayOfEditSlideChanges"/>
    <xs:complexType name="EditSlideChanges">
      <xs:sequence>
        <xs:element minOccurs="0" name="Comments" nillable="true" type="tns2:ArrayOfComment"/>
        <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
        <xs:element minOccurs="0" name="EditAnims" nillable="true"
type="tns2:ArrayOfEditAnimInfo"/>
```

```
        <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns2:EditTransitionInfo"/>
        <xs:element minOccurs="0" name="Elems" nillable="true" type="tns2:ArrayOfViewElement"/>
        <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="ModifiedShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
        <xs:element minOccurs="0" name="Notes" nillable="true" type="tns2:Notes"/>
        <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
        <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
        <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="EditSlideChanges" nillable="true" type="tns2:EditSlideChanges"/>
    <xs:complexType name="PptViewingService.PrintResult">
      <xs:sequence>
        <xs:element minOccurs="0" name="PrintUrl" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="PptViewingService.PrintResult" nillable="true"
type="tns2:PptViewingService.PrintResult"/>
    <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interfa
ce.Shared"/>
    <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.In
terface"/>
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
</xs:schema>
```

7.4   http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfunsignedInt">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt"
type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfunsignedInt" nillable="true" type="q3:ArrayOfunsignedInt"/>
</xs:schema>
```

7.5   http://schemas.microsoft.com/2003/10/Serialization/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns3="http://schemas.microsoft.com/2003/10/Serialization/"
attributeFormDefault="qualified" elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
```

```
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="tns3:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns3:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns3:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-
F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName"/>
  <xs:attribute name="Id" type="xs:ID"/>
  <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>
```

7.6 http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerP ointEditServerInternalService/ Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPoint
EditServerInternalService/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.datacontract.org/2004/07/p"/>
  <xs:element name="LogULS">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="tagID" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="level" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="LogULSResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="LogULSResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetPresentationId">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="rawDocId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="backendUriOverride" nillable="true"
type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetPresentationIdResponse">
```

```xml
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="GetPresentationIdResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetCoauthUpdates">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="lastToken" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetCoauthUpdatesResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetCoauthUpdatesResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfo">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="includedEditSlideIndex" type="xs:int"/>
          <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfoResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfoGetEditSlideById">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="includedEditSlideId" nillable="true"
type="xs:string"/>
          <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfoGetEditSlideByIdResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresResources">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        </xs:sequence>
```

```
        </xs:complexType>
      </xs:element>
      <xs:element name="GetEditPresResourcesResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresResourcesResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetEditSlide">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="GetEditSlideResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditSlideResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MoveSlide">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MoveSlideResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveSlideResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertSlide">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertSlideResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSlideResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReplaceText">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="newText" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="partialEdit" type="xs:boolean"/>
```

```
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ReplaceTextResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceTextResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetAnimation">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="fxId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="sequenceId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetAnimationResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetAnimationResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetTransition">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="type" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="duration" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="isManualAdvance" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetTransitionResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetTransitionApplyAll">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetTransitionApplyAllResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionApplyAllResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ReorderAnimation">
      <xs:complexType>
```

```xml
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="fLater" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReorderAnimationResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReorderAnimationResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ClearPlaceholder">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ClearPlaceholderResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ClearPlaceholderResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteSlide">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DeleteSlideResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteSlideResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DuplicateSlide">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="DuplicateSlideResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateSlideResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ShowHideSlide">
    <xs:complexType>
      <xs:sequence>
```

```
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="fHidden" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ShowHideSlideResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShowHideSlideResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ReplaceNotes">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="newNotes" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ReplaceNotesResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceNotesResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="Undo">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UndoResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UndoResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="Redo">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RedoResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RedoResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangePictureStyle">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="pictureStyleId" type="xs:unsignedInt"/>
        </xs:sequence>
```

```xml
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangePictureStyleResponse">
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        <xs:sequence>
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name="ChangePictureStyleResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ResetPicture">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        </xs:sequence>
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    </xs:element>
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        <xs:sequence>
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name="ResetPictureResult" nillable="true" type="tns2:ServiceResult"/>
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      </xs:complexType>
    </xs:element>
    <xs:element name="MoveShape">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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          <xs:element minOccurs="0" name="y" type="xs:double"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="MoveShapeResponse">
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        <xs:sequence>
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name="MoveShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ResizeShape">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="deltaNorth" type="xs:double"/>
          <xs:element minOccurs="0" name="deltaSouth" type="xs:double"/>
          <xs:element minOccurs="0" name="deltaWest" type="xs:double"/>
          <xs:element minOccurs="0" name="deltaEast" type="xs:double"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ResizeShapeResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResizeShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="RotateShape">
      <xs:complexType>
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```xml
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            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
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        </xs:complexType>
      </xs:element>
      <xs:element name="RotateShapeResponse">
        <xs:complexType>
          <xs:sequence>
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name="RotateShapeResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FlipShape">
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          <xs:sequence>
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            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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            <xs:element minOccurs="0" name="fVertical" type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="FlipShapeResponse">
        <xs:complexType>
          <xs:sequence>
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name="FlipShapeResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertShape">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
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            <xs:element minOccurs="0" name="shapeType" type="xs:int"/>
            <xs:element minOccurs="0" name="shapeCtrPosX" type="xs:int"/>
            <xs:element minOccurs="0" name="shapeCtrPosY" type="xs:int"/>
            <xs:element minOccurs="0" name="shapeWidth" type="xs:double"/>
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        </xs:complexType>
      </xs:element>
      <xs:element name="InsertShapeResponse">
        <xs:complexType>
          <xs:sequence>
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name="InsertShapeResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DuplicateShape">
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          <xs:sequence>
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            <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
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            <xs:element minOccurs="0" name="destinationSlideId" nillable="true"
type="xs:string"/>
            <xs:element minOccurs="0" name="cloneShapePosX" type="xs:int"/>
            <xs:element minOccurs="0" name="cloneShapePosY" type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
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```xml
    <xs:element name="DuplicateShapeResponse">
      <xs:complexType>
        <xs:sequence>
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name="DuplicateShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ArrangeShape">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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    </xs:element>
    <xs:element name="ArrangeShapeResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ArrangeShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UngroupShape">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UngroupShapeResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UngroupShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ApplyShapeStyle">
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        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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        </xs:sequence>
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    </xs:element>
    <xs:element name="ApplyShapeStyleResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeStyleResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ApplyShapeFill">
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        <xs:sequence>
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          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
```

```xml
        <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeFillResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveShapeFill">
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      <xs:sequence>
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        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveShapeFillResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineColor">
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      <xs:sequence>
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        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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        <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
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        <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineColorResponse">
    <xs:complexType>
      <xs:sequence>
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name="ApplyShapeOutlineColorResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineWidth">
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      <xs:sequence>
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        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineWidthResponse">
    <xs:complexType>
      <xs:sequence>
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name="ApplyShapeOutlineWidthResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

```xml
  <xs:element name="ApplyShapeOutlineDashStyle">
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        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="dashType" type="xs:unsignedInt"/>
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    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineDashStyleResponse">
    <xs:complexType>
      <xs:sequence>
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name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineEndStyle">
    <xs:complexType>
      <xs:sequence>
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        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="headEndType" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="tailEndType" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineEndStyleResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveShapeOutline">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveShapeOutlineResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeOutlineResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SaveAndClose">
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      <xs:sequence>
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        <xs:element minOccurs="0" name="fReleaseLock" type="xs:boolean"/>
        <xs:element minOccurs="0" name="fWaitForSave" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="SaveAndCloseResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SaveAndCloseResult" nillable="true" type="tns2:ServiceResult"/>
      </xs:sequence>
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```xml
      </xs:complexType>
    </xs:element>
    <xs:element name="UpdateCanary">
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        <xs:sequence>
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        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="UpdateCanaryResponse">
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        <xs:sequence>
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name="UpdateCanaryResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
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    </xs:element>
    <xs:element name="PrintResponse">
      <xs:complexType>
        <xs:sequence>
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name="PrintResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangeSmartArtLayout">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
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          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangeSmartArtLayoutResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtLayoutResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangeSmartArtColor">
      <xs:complexType>
        <xs:sequence>
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          <xs:element minOccurs="0" name="colorTransUri" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
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      </xs:complexType>
    </xs:element>
    <xs:element name="ChangeSmartArtColorResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtColorResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
```

```
        </xs:element>
      <xs:element name="ChangeSmartArtStyle">
        <xs:complexType>
          <xs:sequence>
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            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="styleUri" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
          </xs:sequence>
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      </xs:element>
      <xs:element name="ChangeSmartArtStyleResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtStyleResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertSmartArt">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
          </xs:sequence>
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      </xs:element>
      <xs:element name="InsertSmartArtResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ResetSmartArt">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
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        </xs:complexType>
      </xs:element>
      <xs:element name="ResetSmartArtResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
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        </xs:complexType>
      </xs:element>
      <xs:element name="ReverseSmartArt">
        <xs:complexType>
          <xs:sequence>
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            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ReverseSmartArtResponse">
        <xs:complexType>
          <xs:sequence>
```

```
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReverseSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ApplyTheme">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="themeFamilyId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="variantIndex" type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ApplyThemeResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyThemeResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetWordArt">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="styleId" type="xs:int"/>
            <xs:element minOccurs="0" name="isClear" type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetWordArtResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetWordArtResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertClipart">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="assetId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="Lcid" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="InsertClipartResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertClipartResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="PastePicture">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
```

```xml
            <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="PastePictureResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PastePictureResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ShapeFormatPainting">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="destinationSlideId" nillable="true"
type="xs:string"/>
            <xs:element minOccurs="0" name="destinationShapeId" type="xs:unsignedInt"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="ShapeFormatPaintingResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShapeFormatPaintingResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="AddComment">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="timeZoneBias" type="xs:int"/>
            <xs:element minOccurs="0" name="parentAuthor" type="xs:int"/>
            <xs:element minOccurs="0" name="parentIndex" type="xs:int"/>
            <xs:element minOccurs="0" name="fHasPos" type="xs:boolean"/>
            <xs:element minOccurs="0" name="x" type="xs:int"/>
            <xs:element minOccurs="0" name="y" type="xs:int"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="AddCommentResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="AddCommentResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DeleteComment">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="DeleteCommentResponse">
        <xs:complexType>
          <xs:sequence>
```

```xml
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteCommentResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="EditComment">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="EditCommentResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="EditCommentResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MoveComment">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="x" type="xs:double"/>
            <xs:element minOccurs="0" name="y" type="xs:double"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="MoveCommentResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveCommentResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetShapeBold">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="isBold" type="xs:boolean"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetShapeBoldResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBoldResult" nillable="true" type="tns2:ServiceResult"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="SetShapeItalic">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="isItalic" type="xs:boolean"/>
```

```
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeItalicResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeItalicResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeUnderline">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="isUnderline" type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeUnderlineResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeUnderlineResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeAlignment">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="textAlignment" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeAlignmentResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeAlignmentResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontName">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="fontName" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontNameResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontNameResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontSize">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
```

```xml
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="fontSize" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontSizeResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontSizeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontColor">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontColorResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontColorResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeBullet">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="textBullet" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeBulletResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBulletResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeTextDirection">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="textDirection" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeTextDirectionResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeTextDirectionResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="ChangeLayout">
```

```
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
          <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
        </xs:sequence>
      </xs:complexType>
  </xs:element>
  <xs:element name="ChangeLayoutResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeLayoutResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
      </xs:complexType>
  </xs:element>
</xs:schema>
```

8   Appendix C: 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 PowerPoint 2010

- Microsoft PowerPoint Online

- Microsoft PowerPoint 2013

- Microsoft PowerPoint 2016

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.

<1> Section 2.1: PowerPoint Online servers support JSON [RFC4627] over HTTP and HTTPS.

<2> Section 2.2.4: Support for this complex type was added in Microsoft Office 2013.

<3> Section 2.2.4: Support for this complex type was added in Office 2013.

<4> Section 2.2.4: Support for this complex type was added in Office 2013.

<5> Section 2.2.4: Support for this complex type was added in Office 2013.

<6> Section 2.2.4: Support for this complex type was added in Office 2013.

<7> Section 2.2.4: Support for this type was added in Microsoft Office 2010 suites Service Pack 1.

<8> Section 2.2.4: Support for this complex type was added in Office 2013.

<9> Section 2.2.4: Support for this complex type was added in Office 2013.

<10> Section 2.2.4: Support for this complex type was added in Office 2013.

<11> Section 2.2.4: Support for this complex type was added in Office 2013.

<12> Section 2.2.4: Support for this complex type was added in Office 2013.

<13> Section 2.2.4: Support for this complex type was added in Office 2013.

<14> Section 2.2.4: Support for this type was added in Office 2010 Service Pack 1.

<15> Section 2.2.4: Support for this complex type was added in Office 2013.

<16> Section 2.2.4: Support for this type was added in Office 2013.

<17> Section 2.2.4: Support for this complex type was added in Office 2013.

<18> Section 2.2.4.1: Support for this complex type was added in Office 2013.

<19> Section 2.2.4.3: Support for this complex type was added in Office 2013.

<20> Section 2.2.4.4: Support for this complex type was added in Office 2013.

<21> Section 2.2.4.12: Support for this complex type was added in Office 2013.

<22> Section 2.2.4.15: Support for this complex type was added in Office 2013.

<23> Section 2.2.4.16: Support for this type was added in Office 2010 Service Pack 1.

<24> Section 2.2.4.17: Support for this complex type was added in Office 2013.

<25> Section 2.2.4.18: Support for this complex type was added in Office 2013.

<26> Section 2.2.4.19: Support for this complex type was added in Office 2013.

<27> Section 2.2.4.22: Support for this complex type was added in Office 2013.

<28> Section 2.2.4.24: Support for this complex type was added in Office 2013.

<29> Section 2.2.4.25: Support for this element was added in Office 2010 Service Pack 1.

<30> Section 2.2.4.26: Support for this element was added in Office 2010 Service Pack 1.

<31> Section 2.2.4.32: Support for this complex type was added in Office 2013.

<32> Section 2.2.4.39: Support for this type was added in Office 2010 Service Pack 1.

<33> Section 2.2.4.40: Support for this complex type was added in Office 2013.

<34> Section 2.2.4.44: Support for this type was added in Office 2013.

<35> Section 2.2.4.48: Support for this complex type was added in Office 2013.

<36> Section 2.2.4.51: PowerPoint Online defines this type as a **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the image.

To retrieve an image, the protocol client sends a request to the protocol server at the endpoint formed by appending "/_layouts/editImageHandler.ashx" to the URL of the **website**, for example http://www.contoso.com/Repository/_layouts/editImageHandler.ashx.

The parameters to the endpoint are specified by the following table:

Parameter name	Definition
Rid	MUST be ImgId as specified by **ViewElement** (section 2.2.4.51).
Pid	MUST be a valid identifier for a presentation as specified in **GetPresentationId** (section 3.1.4.27).

<37> Section 3.1.3: The URL conforms to the following structure in Office 2010: *base URL*/_vti_bin/ppt/edit.svc

<38> Section 3.1.3: The insert picture operation is used to insert a picture into a **presentation**.

In Office 2010, the protocol server endpoint to insert picture content is formed by appending "/_layouts/pptInsertPicture.ashx" to the URL of the website, for example http://www.contoso.com/_layouts/pptInsertPicture.ashx.

In Office 2013, the protocol server endpoint to insert picture content is formed by appending "/p/pptInsertPicture.ashx" to the base URL, for example http://www.contoso.com/p/pptInsertPicture.ashx.

The parameters to the endpoint are specified by the following table:

Parameter name	Definition
PresentationId	MUST be a valid identifier of a presentation as specified by section 3.1.4.27.
SlideId	MUST be a valid **ST_SlideId** ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the **presentation slide**.
ShapeId	MUST be a valid **ST_DrawingElementId** ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape.

<39> Section 3.1.4: Support for this operation was added in Office 2013.

<40> Section 3.1.4: Support for this operation was added in Office 2013.

<41> Section 3.1.4: Support for this operation was added in Office 2013.

<42> Section 3.1.4: Support for this operation was added in Office 2013.

<43> Section 3.1.4: Support for this operation was added in Office 2013.

<44> Section 3.1.4: Support for this operation was added in Office 2013.

<45> Section 3.1.4: Support for this operation was added in Office 2013.

<46> Section 3.1.4: Support for this operation was added in Office 2010 Service Pack 1.

<47> Section 3.1.4: Support for this operation was added in Office 2013.

<48> Section 3.1.4: Support for this operation was added in Office 2013.

<49> Section 3.1.4: Support for this operation was added in Office 2013.

<50> Section 3.1.4: Support for this operation was added in Office 2013.

<51> Section 3.1.4: Support for this operation was added in Office 2013.

<52> Section 3.1.4: Support for this operation was added in Office 2013.

<53> Section 3.1.4: Support for this operation was added in Office 2013.

<54> Section 3.1.4: Support for this operation was added in Office 2010 Service Pack 1.

<55> Section 3.1.4: Support for this operation was added in Office 2013.

<56> Section 3.1.4: Support for this operation was added in Office 2013.

<57> Section 3.1.4: Support for this operation was added in Office 2013.

<58> Section 3.1.4: Support for this operation was added in Office 2010 Service Pack 1.

<59> Section 3.1.4: Support for this operation was added in Office 2013.

<60> Section 3.1.4: Support for this operation was added in Office 2013.

<61> Section 3.1.4: Support for this operation was added in Office 2013.

<62> Section 3.1.4: Support for this operation was added in Office 2013.

<63> Section 3.1.4: Support for this operation was added in Office 2013.

<64> Section 3.1.4: Support for this operation was added in Office 2013.

<65> Section 3.1.4: Support for this operation was added in Office 2013.

<66> Section 3.1.4: Support for this operation was added in Office 2013.

<67> Section 3.1.4: Support for this operation was added in Office 2013.

<68> Section 3.1.4: Support for this operation was added in Office 2013.

<69> Section 3.1.4: Support for this operation was added in Office 2013.

<70> Section 3.1.4.1: Support for this operation was added in Office 2013.

<71> Section 3.1.4.2: Support for this operation was added in Office 2013.

<72> Section 3.1.4.3: Support for this operation was added in Office 2013.

<73> Section 3.1.4.4: Support for this operation was added in Office 2013.

<74> Section 3.1.4.5: Support for this operation was added in Office 2013.

<75> Section 3.1.4.6: Support for this operation was added in Office 2013.

<76> Section 3.1.4.7: Support for this operation was added in Office 2013.

<77> Section 3.1.4.8: Support for this operation was added in Office 2010 Service Pack 1.

<78> Section 3.1.4.9: Support for this operation was added in Office 2013.

<79> Section 3.1.4.16: Support for this operation was added in Office 2013.

<80> Section 3.1.4.18: Support for this operation was added in Office 2013.

<81> Section 3.1.4.20: Support for this operation was added in Office 2013.

<82> Section 3.1.4.21: Support for this operation was added in Office 2013.

<83> Section 3.1.4.22: Support for this operation was added in Office 2013.

<84> Section 3.1.4.24: Support for this operation was added in Office 2013.

<85> Section 3.1.4.28: Support for this operation was added in Office 2010 Service Pack 1.

<86> Section 3.1.4.29: Support for this operation was added in Office 2013.

<87> Section 3.1.4.33: Support for this operation was added in Office 2013.

<88> Section 3.1.4.34: Support for this operation was added in Office 2013.

<89> Section 3.1.4.37: Support for this operation was added in Office 2010 Service Pack 1.

<90> Section 3.1.4.39: Support for this operation was added in Office 2013.

<91> Section 3.1.4.40: Support for this operation was added in Office 2013.

<92> Section 3.1.4.41: Support for this operation was added in Office 2013.

<93> Section 3.1.4.44: Support for this operation was added in Office 2013.

<94> Section 3.1.4.46: Support for this operation was added in Office 2013.

<95> Section 3.1.4.48: Support for this operation was added in Office 2013.

<96> Section 3.1.4.50: Support for this operation was added in Office 2013.

<97> Section 3.1.4.60: Support for this operation was added in Office 2013.

<98> Section 3.1.4.61: Support for this operation was added in Office 2013.

<99> Section 3.1.4.63: Support for this operation was added in Office 2013.

<100> Section 3.1.4.66: Support for this operation was added in Office 2013.

<101> Section 5.1: PowerPoint Online uses the canary mitigation as follows. On a request to **GetPresentationId** (section 3.1.4.27), an HTTP **cookie** with a name of X-Key is included in the response. The value of this cookie is then required to be included by subsequent operation calls that might result in a change to a presentation. For any subsequent operation, an additional cookie with the name X-NewKey can also be included which allows the protocol server to inform the protocol client of the new **canary** value, for example when the canary has expired.

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

▪ A document revision that incorporates changes to interoperability requirements.
▪ A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

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

Section	Description	Revision class
2.2.4.22 EditAnimInfo	Updated description for EffectId and SequenceId for EditAnimInfo complex type.	Minor
2.2.4.30 EditSlideChanges	Added description for HasAnimationOrTransition.	Minor
2.2.4.31 EditSlideInfoFe	Added description for HasAnimationOrTransition.	Minor

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