

# [MS-PWEDPS]:

## PowerPoint Web Editor Data Protocol

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## Revision Summary

Date	Revision History	Revision Class	Comments
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8/28/2009	0.2	Editorial	Revised and edited the technical content
11/6/2009	0.3	Editorial	Revised and edited the technical content
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4/30/2010	1.02	Editorial	Revised and edited the technical content
6/7/2010	1.03	Editorial	Revised and edited the technical content
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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.
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<b>Date</b>	<b>Revision History</b>	<b>Revision Class</b>	<b>Comments</b>
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11/19/2019	8.3	Minor	Clarified the meaning of the technical content.

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# 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 [\[HTML\]](#).

**Hypertext Transfer Protocol (HTTP):** An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

**Hypertext Transfer Protocol Secure (HTTPS):** An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

**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:** A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

**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](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information.

[ISO/IEC29500-1:2016] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference", ISO/IEC 29500-1:2016, <https://www.iso.org/standard/71691.html>

[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/>

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>

[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/>

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, <http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>

[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, December 1999, <http://www.w3.org/TR/html4/>

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

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

[SOAP1.2-1/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part1-20070427/>

[SOAP1.2-2/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 2: Adjuncts (Second Edition)", W3C Recommendation, April 2007, <http://www.w3.org/TR/2007/REC-soap12-part2-20070427>

### 1.3 Protocol Overview (Synopsis)

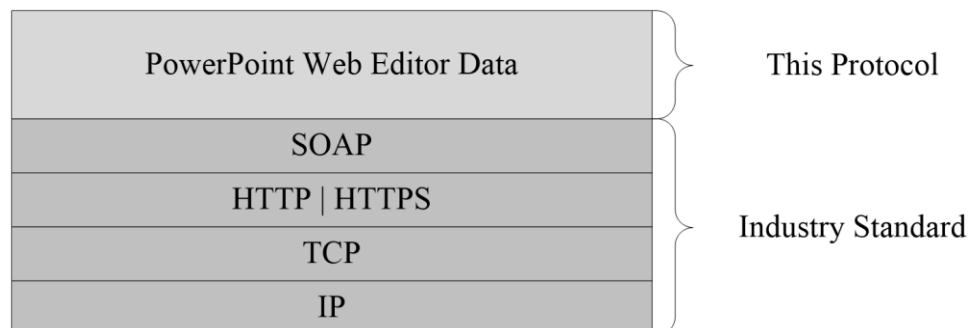
This protocol enables a protocol client to send a request to modify **presentation** content to the protocol server and then receive from the protocol server information about the result of the modification.

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 [\[SOAP1.1\]](#), [\[SOAP1.2-1/2007\]](#) and [\[SOAP1.2-2/2007\]](#). 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.

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

Pref ix	Namespace URI	Reference
xs	http://www.w3.org/2001/XMLSchema	<a href="#">[XMLSCHEMA 1/2]</a> <a href="#">[XMLSCHEMA 2/2]</a>

## 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
<b>ArrayOfComment</b>	The <b>ArrayOfComment</b> complex type <a href="#">&lt;2&gt;</a> specifies a list of <b>Comment</b> elements.
<b>ArrayOfContentMasterFe</b>	The <b>ArrayOfContentMasterFe</b> complex type specifies a list of <b>ContentMasterFe</b> elements.
<b>ArrayOfEditAnimInfo</b>	The <b>ArrayOfEditAnimInfo</b> complex type <a href="#">&lt;3&gt;</a> specifies a list of <b>EditAnimInfo</b> elements.
<b>ArrayOfEditorInfo</b>	The <b>ArrayOfEditorInfo</b> complex type <a href="#">&lt;4&gt;</a> specifies a list of <b>EditorInfo</b> elements.
<b>ArrayOfEditShape</b>	The <b>ArrayOfEditShape</b> complex type specifies a list of <b>EditShape</b> elements.
<b>ArrayOfEditSlide</b>	The <b>ArrayOfEditSlide</b> complex type specifies a list of <b>EditSlide</b> elements.
<b>ArrayOfEditSlideChanges</b>	The <b>ArrayOfEditSlideChanges</b> complex type specifies a list of <b>EditSlideChanges</b> elements.
<b>ArrayOfEditSlideInfoFe</b>	The <b>ArrayOfEditSlideInfoFe</b> complex type specifies a list of <b>EditSlideInfoFe</b> elements.
<b>ArrayOfMainMasterFe</b>	The <b>ArrayOfMainMasterFe</b> complex type specifies a list of <b>MainMasterFe</b> elements.
<b>ArrayOfMainMasterResourcesFe</b>	The <b>ArrayOfMainMasterResourcesFe</b> specifies a list of <b>MainMasterResourcesFe</b> elements.
<b>ArrayOfSlideUpdateInfo</b>	The <b>ArrayOfSlideUpdateInfo</b> specifies a list of <b>SlideUpdateInfo</b> elements.
<b>ArrayOfStyleGalleryItem</b>	The <b>ArrayOfStyleGalleryItem</b> complex type <a href="#">&lt;5&gt;</a> specifies a list of <b>StyleGalleryItem</b> elements.

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

Complex type	Description
<b>Point</b>	The <b>Point</b> complex type specifies a two dimensional point.
<b>PptViewingService.PrintResult</b>	The <b>PptViewingService.PrintResult</b> complex type <a href="#">&lt;14&gt;</a> specifies the result of a print operation.
<b>PresetSchemeColorMapping</b>	The <b>PresetSchemeColorMapping</b> complex type <a href="#">&lt;15&gt;</a> specifies a set of colors in the <b>theme</b> .
<b>Rectangle</b>	The <b>Rectangle</b> complex type specifies a rectangle.
<b>ServiceError</b>	The <b>ServiceError</b> complex type specifies error information. This information is returned by the protocol server to a protocol client.
<b>ServiceResult</b>	The <b>ServiceResult</b> complex type specifies the result of a protocol method. The protocol server returns this type to the protocol client containing either a successful <b>Result</b> element or an <b>Error</b> element.
<b>SlideID</b>	A complex type that SHOULD <a href="#">&lt;16&gt;</a> identify a presentation slide.
<b>SlideIdList</b>	The <b>SlideIdList</b> complex type specifies a list of identifiers for presentation slides.
<b>SlideUpdateInfo</b>	Reserved. MUST be ignored.
<b>SmartArtInfo</b>	The <b>SmartArtInfo</b> complex type specifies information about a <b>SmartArt</b> diagram.
<b>StyleGalleryItem</b>	The <b>StyleGalleryItem</b> complex type <a href="#">&lt;17&gt;</a> specifies a shape style.
<b>Theme</b>	The <b>Theme</b> complex type specifies information about a theme.
<b>ThemeColor</b>	The <b>ThemeColor</b> 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.
<b>ViewElement</b>	The <b>ViewElement</b> 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="tns3: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="tns3: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="tns3: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="tns3: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="tns3:EditShape"/>
  </xs:sequence>
</xs:complexType>
```

```

    </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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3:ViewElement"/>
  </xs:sequence>
</xs:complexType>
```

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

#### 2.2.4.15 BoundingBoxRegion

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

The **BoundingBoxRegion** complex type [<22>](#) specifies the rotated bounds of a **shape**.

```
<xs:complexType name="BoundingBoxRegion" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="BottomLeft" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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**.

```
<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** [\[ISO/IEC29500-1:2016\]](#) 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.

```
<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="tns3: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.

```
<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>
```

```

    </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 can 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="tns3: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="tns3:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="AddedSlides" nillable="true"
type="tns3:ArrayOfEditSlide"/>
    <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
    <xs:element minOccurs="0" name="MainMasterIds" nillable="true" type="tns3:SlideIdList"/>
    <xs:element minOccurs="0" name="ModifiedSlides" nillable="true"
type="tns3:ArrayOfEditSlideChanges"/>
    <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3: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="tns3:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="MainMasters" nillable="true"
type="tns3: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="tns3:Point"/>
    <xs:element minOccurs="0" name="Slide" nillable="true" type="tns3:EditSlide"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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="tns3: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. The value MUST be a value from the following table.

Value	Meaning
0x0	None
0x1	Left
0x2	Center
0x3	Right
0x4	Full

**TextBulletType:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the type of text bullet. The value MUST be a value from the following table.

Value	Meaning
0x0	None
0x1	Bullet
0x2	Number

**TextDirectionType:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of text. The value MUST be a value from the following table.

Value	Meaning
0x0	Neutral
0x1	Left to Right
0x2	Right to Left

**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="tns3: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="tns3:ArrayOfEditAnimInfo"/>
    <xs:element minOccurs="0" name="EditShapes" nillable="true"
type="tns3:ArrayOfEditShape"/>
    <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns3:EditTransitionInfo"/>
    <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
    <xs:element minOccurs="0" name="ID" type="tns3: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="tns3:Notes"/>
    <xs:element minOccurs="0" name="SlideId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Theme" nillable="true" type="tns3:Theme"/>
    <xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true"
type="tns3:ViewElement"/>
    <xs:element minOccurs="0" name="ViewElems" nillable="true"
type="tns3: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="tns3: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="tns3:ArrayOfEditAnimInfo"/>
    <xs:element minOccurs="0" name="EditTransition" nillable="true"
      type="tns3:EditTransitionInfo"/>
    <xs:element minOccurs="0" name="Elems" nillable="true" type="tns3: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="tns3:ArrayOfEditShape"/>
    <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
    <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3: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.

**Elms:** 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="tns3: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="tns3: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="tns3:ArrayOfStyleGalleryItem"/>
    <xs:element minOccurs="0" name="MasterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ShapeStyles" nillable="true"
type="tns3: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="tns3: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>](#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="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Background1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Background2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Text1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Text2" nillable="true" type="tns3:ThemeColor"/>
  </xs:sequence>
</xs:complexType>
```

**Accent1:** A **ThemeColor** complex element (section [2.2.4.50](#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** ([\[XMLESCHEMA2\]](#XMLESCHEMA2) 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:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared" minOccurs="0" name="Code" type="tns1:ErrorCode"/>
    <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
    <xs:element
      xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipeline" minOccurs="0" name="RecommendedActions" type="tns2:ClientActions"/>
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Type" type="tns3: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="tns3: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="tns3: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="tns3: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="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Light1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Light2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true"
type="tns3:PresetSchemeColorMapping"/>
  </xs:sequence>
</xs:complexType>
```

```

    </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="tns3: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="tns3:Point"/>
  <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
</xs:sequence>
</xs:complexType>

```

**Alt:** Reserved. MUST be ignored.

**Clip:** A **ClippingInfo** 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
<b>char</b>	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.
<b>ClientActions</b>	Reserved. MUST be ignored.
<b>duration</b>	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.
<b>ErrorCode</b>	Reserved. MUST be ignored.
<b>guid</b>	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.
<b>ServiceErrorType</b>	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*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="ErrorLocalChangeLostDueToCoauthorEdit"/>
    <xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
    <xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
  </xs:restriction>
</xs:simpleType>
```



```

<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.

<b>Value</b>	<b>Meaning</b>
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.
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.

Value	Meaning
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.
ErrorCannotOpenODPDDocumentPassword	Reserved. MUST be ignored.
ErrorLocalChangeLostDueToCoauthorEdit	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.
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.

Value	Meaning
ErrorCannotOpenDocumentMmcfcPackagePartNotFound	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.

Value	Meaning
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.

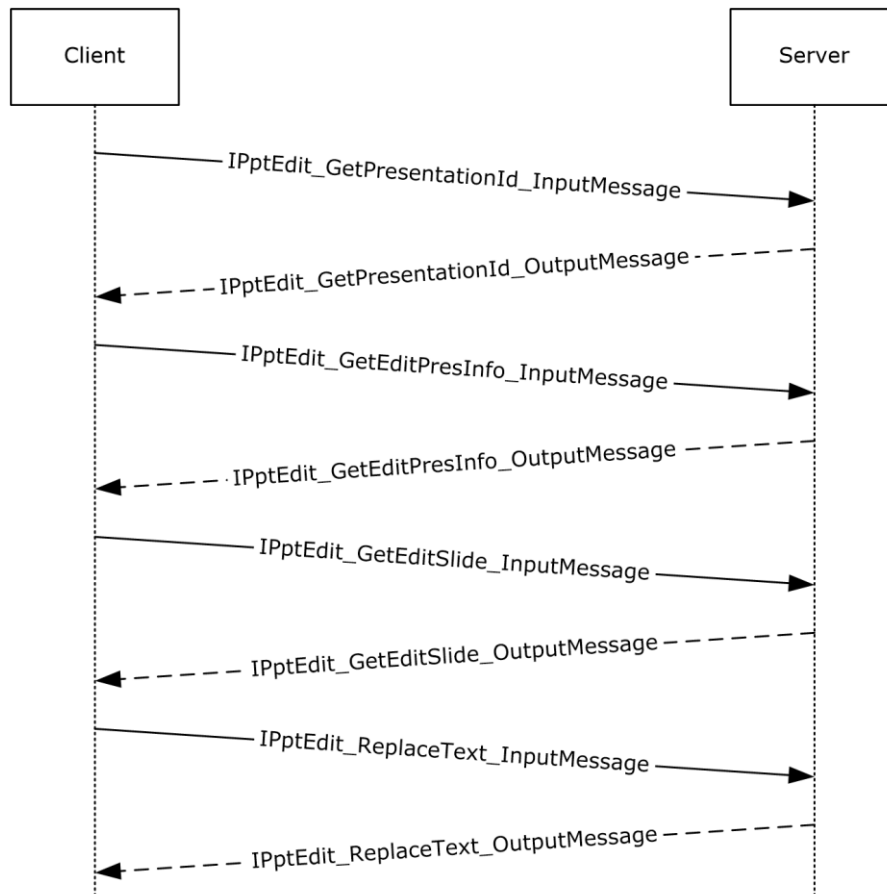
### 3 Protocol Details

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
<b>AddComment</b>	The <b>AddComment</b> operation SHOULD <a href="#">&lt;39&gt;</a> be used to insert a <b>comment</b> into a <b>presentation</b> .
<b>ApplyShapeFill</b>	The <b>ApplyShapeFill</b> operation SHOULD <a href="#">&lt;40&gt;</a> be used to modify the color of a <b>shape</b> in a presentation.
<b>ApplyShapeOutlineColor</b>	The <b>ApplyShapeOutlineColor</b> operation SHOULD <a href="#">&lt;41&gt;</a> be used to modify the color of the outline of a shape in a presentation.
<b>ApplyShapeOutlineDashStyle</b>	The <b>ApplyShapeOutlineDashStyle</b> operation SHOULD <a href="#">&lt;42&gt;</a> be used to modify the dash type of the outline of a shape.
<b>ApplyShapeOutlineEndStyle</b>	The <b>ApplyShapeOutlineEndStyle</b> operation SHOULD <a href="#">&lt;43&gt;</a> be used to modify the end style of a line in a presentation.

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



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

Operation	Description
	animation to a shape in a presentation.
<b>SetShapeAlignment</b>	The <b>SetShapeAlignment</b> operation is used to set the alignment of a shape.
<b>SetShapeBold</b>	The <b>SetShapeBold</b> operation is used to make the text in a shape bold.
<b>SetShapeBullet</b>	The <b>SetShapeBullet</b> operation is used to make the text in a shape into a bulleted list.
<b>SetShapeFontColor</b>	The <b>SetShapeFontColor</b> operation is used to set the font color of a shape.
<b>SetShapeFontName</b>	The <b>SetShapeFontName</b> operation is used to set the font name for text for a shape.
<b>SetShapeFontSize</b>	The <b>SetShapeFontSize</b> operation is used to set the font size for text for a shape.
<b>SetShapeItalic</b>	The <b>SetShapeItalic</b> operation is used to italicize the text for a shape.
<b>SetShapeTextDirection</b>	The <b>SetShapeTextDirection</b> operation is used to set the text direction for a shape.
<b>SetShapeUnderline</b>	The <b>SetShapeUnderline</b> operation is used to underline text in a shape.
<b>SetTransition</b>	The <b>SetTransition</b> operation SHOULD <a href="#">&lt;66&gt;</a> be used to apply a transition to a <b>slide</b> in a presentation.
<b>SetTransitionApplyAll</b>	The <b>SetTransitionApplyAll</b> operation SHOULD <a href="#">&lt;67&gt;</a> be used to copy a transition from one slide and apply it to all other slides in a presentation.
<b>SetWordArt</b>	Reserved. MUST NOT be called.
<b>ShapeFormatPainting</b>	The <b>ShapeFormatPainting</b> operation SHOULD <a href="#">&lt;68&gt;</a> be used to copy formatting from one shape and apply it to another shape in the presentation.
<b>ShowHideSlide</b>	The <b>ShowHideSlide</b> operation is used to show or hide a presentation slide.
<b>Undo</b>	The <b>Undo</b> operation is used to undo the last operation in a presentation that is not undone.
<b>UngroupShape</b>	The <b>UngroupShape</b> operation SHOULD <a href="#">&lt;69&gt;</a> be used to ungroup a shape in a presentation.
<b>UpdateCanary</b>	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="tns: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="tns: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
<b>IPptEdit_AddComment_InputMessage</b>	The request WSDL message for the <b>AddComment WSDL operation</b> .
<b>IPptEdit_AddComment_OutputMessage</b>	The response WSDL message for the <b>AddComment WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>AddComment</b>	The input data for the <b>AddComment WSDL operation</b> .
<b>AddCommentResponse</b>	The result data for the <b>AddComment WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the **comment** that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="AddCommentResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeFill_InputMessage</b>	The request WSDL message for the <b>ApplyShapeFill WSDL operation</b> .
<b>IPptEdit_ApplyShapeFill_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeFill WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ApplyShapeFill</b>	The input data for the <b>ApplyShapeFill WSDL operation</b> .
<b>ApplyShapeFillResponse</b>	The result data for the <b>ApplyShapeFill WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**RGBColor:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the red, green, and blue components of the color. This element can 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeFillResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeOutlineColor_InputMessage</b>	The request WSDL message for the <b>ApplyShapeOutlineColor WSDL operation</b> .
<b>IPptEdit_ApplyShapeOutlineColor_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeOutlineColor WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ApplyShapeOutlineColor</b>	The input data for the <b>ApplyShapeOutlineColor WSDL operation</b> .
<b>ApplyShapeOutlineColorResponse</b>	The result data for the <b>ApplyShapeOutlineColor WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**RGBColor:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the red, green, and blue components of the color. This element can 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="ApplyShapeOutlineColorResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeOutlineDashStyle_InputMessage</b>	The request WSDL message for the <b>ApplyShapeOutlineDashStyle WSDL operation</b> .
<b>IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeOutlineDashStyle WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ApplyShapeOutlineDashStyle</b>	The input data for the <b>ApplyShapeOutlineDashStyle WSDL operation</b> .
<b>ApplyShapeOutlineDashStyleResponse</b>	The result data for the <b>ApplyShapeOutlineDashStyle WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

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

Value	Meaning
0x00	Solid.
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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeOutlineEndStyle_InputMessage</b>	The request WSDL message for the <b>ApplyShapeOutlineEndStyle WSDL operation</b> .
<b>IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeOutlineEndStyle WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ApplyShapeOutlineEndStyle</b>	The input data for the <b>ApplyShapeOutlineEndStyle WSDL operation</b> .
<b>ApplyShapeOutlineEndStyleResponse</b>	The result data for the <b>ApplyShapeOutlineEndStyle WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the line that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the line that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeOutlineWidth_InputMessage</b>	The request WSDL message for the <b>ApplyShapeOutlineWidth WSDL operation</b> .
<b>IPptEdit_ApplyShapeOutlineWidth_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeOutlineWidth</b> 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/PowerPointEditServerInternalService/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
<b>ApplyShapeOutlineWidth</b>	The input data for the <b>ApplyShapeOutlineWidth WSDL operation</b> .
<b>ApplyShapeOutlineWidthResponse</b>	The result data for the <b>ApplyShapeOutlineWidth WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="ApplyShapeOutlineWidthResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyShapeStyle_InputMessage</b>	The request WSDL message for the <b>ApplyShapeStyle WSDL operation</b> .
<b>IPptEdit_ApplyShapeStyle_OutputMessage</b>	The response WSDL message for the <b>ApplyShapeStyle WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ApplyShapeStyle</b>	The input data for the <b>ApplyShapeStyle WSDL operation</b> .
<b>ApplyShapeStyleResponse</b>	The result data for the <b>ApplyShapeStyle WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeStyleResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ApplyTheme_InputMessage</b>	The request WSDL message for the <b>ApplyTheme WSDL operation</b> .
<b>IPptEdit_ApplyTheme_OutputMessage</b>	The response WSDL message for the <b>ApplyTheme WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ApplyTheme</b>	The input data for the <b>ApplyTheme WSDL operation</b> .
<b>ApplyThemeResponse</b>	The result data for the <b>ApplyTheme WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyThemeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ArrangeShape_InputMessage</b>	The request WSDL message for the <b>ArrangeShape WSDL operation</b> .
<b>IPptEdit_ArrangeShape_OutputMessage</b>	The response WSDL message for the <b>ArrangeShape WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ArrangeShape</b>	The input data for the <b>ArrangeShape WSDL operation</b> .
<b>ArrangeShapeResponse</b>	The result data for the <b>ArrangeShape WSDL operation</b> .

#### 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:** A **string** specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="ArrangeShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ChangeLayout_InputMessage</b>	The request WSDL message for the <b>ChangeLayout WSDL operation</b> .
<b>IPptEdit_ChangeLayout_OutputMessage</b>	The response WSDL message for the <b>ChangeLayout WSDL operation</b> .

##### 3.1.4.10.1.1 IPptEdit\_ChangeLayout\_InputMessage

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

The **SOAP action** value is:

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
<b>ChangeLayout</b>	The input data for the <b>ChangeLayout WSDL operation</b> .
<b>ChangeLayoutResponse</b>	The result data for the <b>ChangeLayout WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**mainMasterId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier for the **main master slide** of the presentation slide as specified by **ST\_SlideMasterId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.16).

**contentMasterId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier for the **slide layout** of the presentation slide as specified by **ST\_SlideLayoutId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.14).

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeLayoutResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ChangePictureStyle_InputMessage</b>	The request WSDL message for the <b>ChangePictureStyle WSDL operation</b> .
<b>IPptEdit_ChangePictureStyle_OutputMessage</b>	The response WSDL message for the <b>ChangePictureStyle WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ChangePictureStyle</b>	The input data for the <b>ChangePictureStyle WSDL operation</b> .
<b>ChangePictureStyleResponse</b>	The result data for the <b>ChangePictureStyle WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the picture as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangePictureStyleResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ChangeSmartArtColor_InputMessage</b>	The request WSDL message for the <b>ChangeSmartArtColor WSDL operation</b> .
<b>IPptEdit_ChangeSmartArtColor_OutputMessage</b>	The response WSDL message for the <b>ChangeSmartArtColor</b> 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/PowerPointEditServerInternalService/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
<b>ChangeSmartArtColor</b>	The input data for the <b>ChangeSmartArtColor WSDL operation</b> .
<b>ChangeSmartArtColorResponse</b>	The result data for the <b>ChangeSmartArtColor</b> 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:** A **string** that specifies the identifier of the **presentation slide** where the color transform of the SmartArt diagram is changed as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the SmartArt diagram the color of which is changed as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtColorResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ChangeSmartArtLayout_InputMessage</b>	The request WSDL message for the <b>ChangeSmartArtLayout WSDL operation</b> .
<b>IPptEdit_ChangeSmartArtLayout_OutputMessage</b>	The response WSDL message for the <b>ChangeSmartArtLayout</b> 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:



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
<b>ChangeSmartArtLayout</b>	The input data for the <b>ChangeSmartArtLayout WSDL operation</b> .
<b>ChangeSmartArtLayoutResponse</b>	The result data for the <b>ChangeSmartArtLayout WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** where the layout of the SmartArt diagram is changed as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the SmartArt diagram the layout of which is changed as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtLayoutResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ChangeSmartArtStyle_InputMessage</b>	The request WSDL message for the <b>ChangeSmartArtStyle WSDL operation</b> .
<b>IPptEdit_ChangeSmartArtStyle_OutputMessage</b>	The response WSDL message for the <b>ChangeSmartArtStyle WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ChangeSmartArtStyle</b>	The input data for the <b>ChangeSmartArtStyle WSDL operation</b> .
<b>ChangeSmartArtStyleResponse</b>	The result data for the <b>ChangeSmartArtStyle WSDL operation</b> .

#### 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>
```

```

    </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:** A **string** that specifies the identifier of the **presentation slide** where the style of the SmartArt diagram is changed as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the SmartArt diagram the style of which is changed as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtStyleResult" nillable="true" type="tns3: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/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholder"
    message="tns: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/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholderResponse"
    message="tns: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
<b>IPptEdit_ClearPlaceholder_InputMessage</b>	The request WSDL message for the <b>ClearPlaceholder WSDL operation</b> .
<b>IPptEdit_ClearPlaceholder_OutputMessage</b>	The response WSDL message for the <b>ClearPlaceholder WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ClearPlaceholder</b>	The input data for the <b>ClearPlaceholder</b> WSDL operation.
<b>ClearPlaceholderResponse</b>	The result data for the <b>ClearPlaceholder</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is deleted as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is deleted as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ClearPlaceholderResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_DeleteComment_InputMessage</b>	The request WSDL message for the <b>DeleteComment WSDL operation</b> .
<b>IPptEdit_DeleteComment_OutputMessage</b>	The response WSDL message for the <b>DeleteComment WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>DeleteComment</b>	The input data for the <b>DeleteComment WSDL operation</b> .
<b>DeleteCommentResponse</b>	The result data for the <b>DeleteComment WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the **comment** that is being deleted as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteCommentResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_DeleteSlide_InputMessage</b>	The request WSDL message for the <b>DeleteSlide WSDL operation</b> .
<b>IPptEdit_DeleteSlide_OutputMessage</b>	The response WSDL message for the <b>DeleteSlide WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>DeleteSlide</b>	The input data for the <b>DeleteSlide WSDL operation</b> .
<b>DeleteSlideResponse</b>	The result data for the <b>DeleteSlide WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** to delete as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_DuplicateShape_InputMessage</b>	The request WSDL message for the <b>DuplicateShape WSDL operation</b> .

Message	Description
<b>IPptEdit_DuplicateShape_OutputMessage</b>	The response WSDL message for the <b>DuplicateShape</b> 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/PowerPointEditServerInternalService/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
<b>DuplicateShape</b>	The input data for the <b>DuplicateShape</b> <b>WSDL operation</b> .
<b>DuplicateShapeResponse</b>	The result data for the <b>DuplicateShape</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that the formatting is copied from as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**sourceShapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that the formatting is copied from as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). The shape MUST NOT be a group, **SmartArt**, table, chart, or ActiveX shape.

**destinationSlideId:** A **string** that specifies the identifier of the presentation slide containing the shape that the formatting is applied to as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_DuplicateSlide_InputMessage</b>	The request WSDL message for the <b>DuplicateSlide WSDL operation</b> .
<b>IPptEdit_DuplicateSlide_OutputMessage</b>	The response WSDL message for the <b>DuplicateSlide WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>DuplicateSlide</b>	The input data for the <b>DuplicateSlide WSDL operation</b> .
<b>DuplicateSlideResponse</b>	The result data for the <b>DuplicateSlide WSDL operation</b> .

### 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**: A **string** that specifies the identifier of the **presentation slide** to duplicate as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**dstId**: A **string** that specifies the identifier of the presentation slide that precedes the location of the duplicated slide as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_EditComment_InputMessage</b>	The request WSDL message for the <b>EditComment WSDL operation</b> .
<b>IPptEdit_EditComment_OutputMessage</b>	The response WSDL message for the <b>EditComment WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>EditComment</b>	The input data for the <b>EditComment WSDL operation</b> .
<b>EditCommentResponse</b>	The result data for the <b>EditComment WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the **comment** that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="EditCommentResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    </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="tns: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="tns: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
<b>IPptEdit_FlipShape_InputMessage</b>	The request WSDL message for the <b>FlipShape WSDL operation</b> .

Message	Description
<b>IPptEdit_FlipShape_OutputMessage</b>	The response WSDL message for the <b>FlipShape</b> 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/PowerPointEditServerInternalService/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
<b>FlipShape</b>	The input data for the <b>FlipShape WSDL operation</b> .
<b>FlipShapeResponse</b>	The result data for the <b>FlipShape</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="FlipShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetCoauthUpdates_InputMessage</b>	The request WSDL message for the <b>GetCoauthUpdates WSDL operation</b> .
<b>IPptEdit_GetCoauthUpdates_OutputMessage</b>	The response WSDL message for the <b>GetCoauthUpdates WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>GetCoauthUpdates</b>	The input data for the <b>GetCoauthUpdates WSDL operation</b> .
<b>GetCoauthUpdatesResponse</b>	The result data for the <b>GetCoauthUpdates WSDL operation</b> .

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetCoauthUpdatesResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetEditPresInfo_InputMessage</b>	The request WSDL message for the <b>GetEditPresInfo WSDL operation</b> .
<b>IPptEdit_GetEditPresInfo_OutputMessage</b>	The response WSDL message for the <b>GetEditPresInfo WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>GetEditPresInfo</b>	The input data for the <b>GetEditPresInfo WSDL operation</b> .
<b>GetEditPresInfoResponse</b>	The result data for the <b>GetEditPresInfo WSDL operation</b> .

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage</b>	The request WSDL message for the <b>GetEditPresInfoGetEditSlideById WSDL operation</b> .
<b>IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage</b>	The response WSDL message for the <b>GetEditPresInfoGetEditSlideById WSDL</b>

Message	Description
	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/PowerPointEditServerInternalService/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
<b>GetEditPresInfoGetEditSlideById</b>	The input data for the <b>GetEditPresInfoGetEditSlideById WSDL operation</b> .
<b>GetEditPresInfoGetEditSlideByIdResponse</b>	The result data for the <b>GetEditPresInfoGetEditSlideById WSDL operation</b> .

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetEditPresResources_InputMessage</b>	The request WSDL message for the <b>GetEditPresResources WSDL operation</b> .
<b>IPptEdit_GetEditPresResources_OutputMessage</b>	The response WSDL message for the <b>GetEditPresResources WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>GetEditPresResources</b>	The input data for the <b>GetEditPresResources WSDL operation</b> .
<b>GetEditPresResourcesResponse</b>	The result data for the <b>GetEditPresResources WSDL operation</b> .

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresResourcesResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetEditSlide_InputMessage</b>	The request WSDL message for the <b>GetEditSlide WSDL operation</b> .
<b>IPptEdit_GetEditSlide_OutputMessage</b>	The response WSDL message for the <b>GetEditSlide WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>GetEditSlide</b>	The input data for the <b>GetEditSlide WSDL operation</b> .
<b>GetEditSlideResponse</b>	The result data for the <b>GetEditSlide WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_GetPresentationId_InputMessage</b>	The request WSDL message for the <b>GetPresentationId WSDL operation</b> .
<b>IPptEdit_GetPresentationId_OutputMessage</b>	The response WSDL message for the <b>GetPresentationId WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>GetPresentationId</b>	The input data for the <b>GetPresentationId WSDL operation</b> .
<b>GetPresentationIdResponse</b>	The result data for the <b>GetPresentationId WSDL operation</b> .

#### 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="tns: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="tns: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
<b>IPptEdit_InsertClipart_InputMessage</b>	The request WSDL message for the <b>InsertClipart WSDL operation</b> .
<b>IPptEdit_InsertClipart_OutputMessage</b>	The response WSDL message for the <b>InsertClipart WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>InsertClipart</b>	The input data for the <b>InsertClipart WSDL operation</b> .
<b>InsertClipartResponse</b>	The result data for the <b>InsertClipart WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** into which the picture is inserted as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the **placeholder** shape into which the picture is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertClipartResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_InsertShape_InputMessage</b>	The request WSDL message for the <b>InsertShape WSDL operation</b> .
<b>IPptEdit_InsertShape_OutputMessage</b>	The response WSDL message for the <b>InsertShape WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>InsertShape</b>	The input data for the <b>InsertShape WSDL operation</b> .
<b>InsertShapeResponse</b>	The result data for the <b>InsertShape WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_InsertSlide_InputMessage</b>	The request WSDL message for the <b>InsertSlide WSDL operation</b> .
<b>IPptEdit_InsertSlide_OutputMessage</b>	The response WSDL message for the <b>InsertSlide WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>InsertSlide</b>	The input data for the <b>InsertSlide WSDL operation</b> .
<b>InsertSlideResponse</b>	The result data for the <b>InsertSlide WSDL operation</b> .

### 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 **string** that specifies the identifier of the **presentation slide** that precedes the location of the inserted slide. The value is zero or **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13). 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 **unsignedInt** ([XMLSCHEMA2] section 3.3.22) specifies the identifier for the **main master slide** of the inserted presentation slide as specified by **ST\_SlideMasterId** ([ISO/IEC29500-1:2016] section 19.7.16).

**contentMasterId**: An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier for the **slide layout** of the inserted presentation slide as specified by **ST\_SlideLayoutId** ([ISO/IEC29500-1:2016] section 19.7.14).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_InsertSmartArt_InputMessage</b>	The request WSDL message for the <b>InsertSmartArt WSDL operation</b> .
<b>IPptEdit_InsertSmartArt_OutputMessage</b>	The response WSDL message for the <b>InsertSmartArt WSDL operation</b> .

#### 3.1.4.31.1.1 IPptEdit\_InsertSmartArt\_InputMessage

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

The **SOAP action** value is:

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
<b>InsertSmartArt</b>	The input data for the <b>InsertSmartArt WSDL operation</b> .
<b>InsertSmartArtResponse</b>	The result data for the <b>InsertSmartArt WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** into which the SmartArt diagram is inserted as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the **placeholder** shape into which the SmartArt diagram is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSmartArtResult" nillable="true" type="tns3: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.

### 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="tns: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="tns: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
<b>IPptEdit_LogULS_InputMessage</b>	The request WSDL message for the <b>LogULS WSDL operation</b> .
<b>IPptEdit_LogULS_OutputMessage</b>	The response WSDL message for the <b>LogULS WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>LogULS</b>	The input data for the <b>LogULS WSDL operation</b> .
<b>LogULSResponse</b>	The result data for the <b>LogULS WSDL operation</b> .

#### 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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="LogULSResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_MoveComment_InputMessage</b>	The request WSDL message for the <b>MoveComment WSDL operation</b> .
<b>IPptEdit_MoveComment_OutputMessage</b>	The response WSDL message for the <b>MoveComment WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>MoveComment</b>	The input data for the <b>MoveComment WSDL operation</b> .
<b>MoveCommentResponse</b>	The result data for the <b>MoveComment WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the **comment** that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveCommentResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_MoveShape_InputMessage</b>	The request WSDL message for the <b>MoveShape WSDL operation</b> .
<b>IPptEdit_MoveShape_OutputMessage</b>	The response WSDL message for the <b>MoveShape WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>MoveShape</b>	The input data for the <b>MoveShape WSDL operation</b> .
<b>MoveShapeResponse</b>	The result data for the <b>MoveShape WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\] section 19.7.13](#)).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\] section 3.3.22](#)) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\] section 20.1.10.21](#)).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_MoveSlide_InputMessage</b>	The request WSDL message for the <b>MoveSlide WSDL operation</b> .
<b>IPptEdit_MoveSlide_OutputMessage</b>	The response WSDL message for the <b>MoveSlide WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>MoveSlide</b>	The input data for the <b>MoveSlide WSDL operation</b> .
<b>MoveSlideResponse</b>	The result data for the <b>MoveSlide WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** that is moved as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**dstId:** A **string** that specifies the identifier of the presentation slide that precedes the new location of the moved slide. The value is zero or an **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13). 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_PastePicture_InputMessage</b>	The request WSDL message for the <b>PastePicture WSDL operation</b> .
<b>IPptEdit_PastePicture_OutputMessage</b>	The response WSDL message for the <b>PastePicture WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>PastePicture</b>	The input data for the <b>PastePicture WSDL operation</b> .
<b>PastePictureResponse</b>	The result data for the <b>PastePicture WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** into which the picture is inserted as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the **placeholder** shape into which the picture is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PastePictureResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_Print_InputMessage</b>	The request WSDL message for the <b>Print WSDL operation</b> .
<b>IPptEdit_Print_OutputMessage</b>	The response WSDL message for the <b>Print</b> 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/PowerPointEditServerInternalService/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
<b>Print</b>	The input data for the <b>Print WSDL operation</b> .
<b>PrintResponse</b>	The result data for the <b>Print</b> 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PrintResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**PrintResult:** A **ServiceResult** (section [2.2.4.43](#)) that specifies the result of the operation. The **Result** child element MUST be a **PptViewingService.PrintResult** (section [2.2.4.39](#)).

### 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="tns: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="tns: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
<b>IPptEdit_Redo_InputMessage</b>	The request WSDL message for the <b>Redo WSDL operation</b> .
<b>IPptEdit_Redo_OutputMessage</b>	The response WSDL message for the <b>Redo WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>Redo</b>	The input data for the <b>Redo WSDL operation</b> .
<b>RedoResponse</b>	The result data for the <b>Redo WSDL operation</b> .

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RedoResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_RemoveShapeFill_InputMessage</b>	The request WSDL message for the <b>RemoveShapeFill WSDL operation</b> .
<b>IPptEdit_RemoveShapeFill_OutputMessage</b>	The response WSDL message for the <b>RemoveShapeFill WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>RemoveShapeFill</b>	The input data for the <b>RemoveShapeFill WSDL operation</b> .
<b>RemoveShapeFillResponse</b>	The result data for the <b>RemoveShapeFill WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeFillResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_RemoveShapeOutline_InputMessage</b>	The request WSDL message for the <b>RemoveShapeOutline WSDL operation</b> .
<b>IPptEdit_RemoveShapeOutline_OutputMessage</b>	The response WSDL message for the <b>RemoveShapeOutline WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>RemoveShapeOutline</b>	The input data for the <b>RemoveShapeOutline WSDL operation</b> .
<b>RemoveShapeOutlineResponse</b>	The result data for the <b>RemoveShapeOutline WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="RemoveShapeOutlineResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ReorderAnimation_InputMessage</b>	The request WSDL message for the <b>ReorderAnimation WSDL operation</b> .
<b>IPptEdit_ReorderAnimation_OutputMessage</b>	The response WSDL message for the <b>ReorderAnimation WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ReorderAnimation</b>	The input data for the <b>ReorderAnimation WSDL operation</b> .
<b>ReorderAnimationResponse</b>	The result data for the <b>ReorderAnimation WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReorderAnimationResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ReplaceNotes_InputMessage</b>	The request WSDL message for the <b>ReplaceNotes WSDL operation</b> .
<b>IPptEdit_ReplaceNotes_OutputMessage</b>	The response WSDL message for the <b>ReplaceNotes WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>ReplaceNotes</b>	The input data for the <b>ReplaceNotes WSDL operation</b> .
<b>ReplaceNotesResponse</b>	The result data for the <b>ReplaceNotes WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the text that is replaced as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceNotesResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ReplaceText_InputMessage</b>	The request WSDL message for the <b>ReplaceText WSDL operation</b> .
<b>IPptEdit_ReplaceText_OutputMessage</b>	The response WSDL message for the <b>ReplaceText WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>ReplaceText</b>	The input data for the <b>ReplaceText WSDL operation</b> .
<b>ReplaceTextResponse</b>	The result data for the <b>ReplaceText WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the text that is replaced as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape containing the text that is replaced as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**newText:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the replacement text.

**partialEdit:** Reserved. MUST be ignored.

### 3.1.4.43.2 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceTextResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ResetPicture_InputMessage</b>	The request WSDL message for the <b>ResetPicture WSDL operation</b> .
<b>IPptEdit_ResetPicture_OutputMessage</b>	The response WSDL message for the <b>ResetPicture WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ResetPicture</b>	The input data for the <b>ResetPicture WSDL operation</b> .
<b>ResetPictureResponse</b>	The result data for the <b>ResetPicture WSDL operation</b> .

#### 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 **string** that specifies the identifier of the **presentation slide** containing the picture that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the picture that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

### 3.1.4.44.2 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetPictureResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ResetSmartArt_InputMessage</b>	The request WSDL message for the <b>ResetSmartArt WSDL operation</b> .
<b>IPptEdit_ResetSmartArt_OutputMessage</b>	The response WSDL message for the <b>ResetSmartArt WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ResetSmartArt</b>	The input data for the <b>ResetSmartArt WSDL operation</b> .
<b>ResetSmartArtResponse</b>	The result data for the <b>ResetSmartArt WSDL operation</b> .

### 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 **string** that specifies the identifier of the **presentation slide** containing the SmartArt diagram that is reset as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the SmartArt diagram that is reset as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetSmartArtResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ResizeShape_InputMessage</b>	The request WSDL message for the <b>ResizeShape WSDL operation</b> .
<b>IPptEdit_ResizeShape_OutputMessage</b>	The response WSDL message for the <b>ResizeShape WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ResizeShape</b>	The input data for the <b>ResizeShape WSDL operation</b> .
<b>ResizeShapeResponse</b>	The result data for the <b>ResizeShape WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResizeShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ReverseSmartArt_InputMessage</b>	The request WSDL message for the <b>ReverseSmartArt WSDL operation</b> .
<b>IPptEdit_ReverseSmartArt_OutputMessage</b>	The response WSDL message for the <b>ReverseSmartArt WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ReverseSmartArt</b>	The input data for the <b>ReverseSmartArt WSDL operation</b> .
<b>ReverseSmartArtResponse</b>	The result data for the <b>ReverseSmartArt WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the SmartArt diagram that is reversed as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the SmartArt diagram that is reversed as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

### 3.1.4.47.2 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReverseSmartArtResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_RotateShape_InputMessage</b>	The request WSDL message for the <b>RotateShape WSDL operation</b> .
<b>IPptEdit_RotateShape_OutputMessage</b>	The response WSDL message for the <b>RotateShape WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>RotateShape</b>	The input data for the <b>RotateShape WSDL operation</b> .
<b>RotateShapeResponse</b>	The result data for the <b>RotateShape WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21). 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RotateShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SaveAndClose_InputMessage</b>	The request WSDL message for the <b>SaveAndClose WSDL operation</b> .
<b>IPptEdit_SaveAndClose_OutputMessage</b>	The response WSDL message for the <b>SaveAndClose WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>SaveAndClose</b>	The input data for the <b>SaveAndClose WSDL operation</b> .
<b>SaveAndCloseResponse</b>	The result data for the <b>SaveAndClose WSDL operation</b> .

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SaveAndCloseResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetAnimation_InputMessage</b>	The request WSDL message for the <b>SetAnimation WSDL operation</b> .
<b>IPptEdit_SetAnimation_OutputMessage</b>	The response WSDL message for the <b>SetAnimation WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>SetAnimation</b>	The input data for the <b>SetAnimation WSDL operation</b> .
<b>SetAnimationResponse</b>	The result data for the <b>SetAnimation WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016](#) section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetAnimationResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeAlignment_InputMessage</b>	The request WSDL message for the <b>SetShapeAlignment WSDL operation</b> .

Message	Description
<b>IPptEdit_SetShapeAlignment_OutputMessage</b>	The response WSDL message for the <b>SetShapeAlignment</b> 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/PowerPointEditServerInternalService/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
<b>SetShapeAlignment</b>	The input data for the <b>SetShapeAlignment</b> <b>WSDL operation</b> .
<b>SetShapeAlignmentResponse</b>	The result data for the <b>SetShapeAlignment</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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	None
0x1	Left
0x2	Center
0x3	Right
0x4	Full

### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeAlignmentResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeBold_InputMessage</b>	The request WSDL message for the <b>SetShapeBold WSDL operation</b> .
<b>IPptEdit_SetShapeBold_OutputMessage</b>	The response WSDL message for the <b>SetShapeBold WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>SetShapeBold</b>	The input data for the <b>SetShapeBold WSDL operation</b> .
<b>SetShapeBoldResponse</b>	The result data for the <b>SetShapeBold WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**isBold:** A **boolean** that specifies if the text will 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
        name="SetShapeBoldResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeBullet_InputMessage</b>	The request WSDL message for the <b>SetShapeBullet WSDL operation</b> .
<b>IPptEdit_SetShapeBullet_OutputMessage</b>	The response WSDL message for the <b>SetShapeBullet WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeBullet</b>	The input data for the <b>SetShapeBullet WSDL operation</b> .
<b>SetShapeBulletResponse</b>	The result data for the <b>SetShapeBullet WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBulletResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeFontColor_InputMessage</b>	The request WSDL message for the <b>SetShapeFontColor WSDL operation</b> .
<b>IPptEdit_SetShapeFontColor_OutputMessage</b>	The response WSDL message for the <b>SetShapeFontColor WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeFontColor</b>	The input data for the <b>SetShapeFontColor WSDL operation</b> .
<b>SetShapeFontColorResponse</b>	The result data for the <b>SetShapeFontColor WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**RGBColor:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the red, green, and blue components of the color.

### 3.1.4.54.2 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontColorResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeFontName_InputMessage</b>	The request WSDL message for the <b>SetShapeFontName WSDL operation</b> .
<b>IPptEdit_SetShapeFontName_OutputMessage</b>	The response WSDL message for the <b>SetShapeFontName WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeFontName</b>	The input data for the <b>SetShapeFontName WSDL operation</b> .



Element	Description
<b>SetShapeFontNameResponse</b>	The result data for the <b>SetShapeFontName</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontNameResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeFontSize_InputMessage</b>	The request WSDL message for the <b>SetShapeFontSize WSDL operation</b> .
<b>IPptEdit_SetShapeFontSize_OutputMessage</b>	The response WSDL message for the <b>SetShapeFontSize WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeFontSize</b>	The input data for the <b>SetShapeFontSize WSDL operation</b> .
<b>SetShapeFontSizeResponse</b>	The result data for the <b>SetShapeFontSize WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontSizeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeItalic_InputMessage</b>	The request WSDL message for the <b>SetShapeItalic WSDL operation</b> .

Message	Description
<b>IPptEdit_SetShapeItalic_OutputMessage</b>	The response WSDL message for the <b>SetShapeItalic</b> 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/PowerPointEditServerInternalService/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
<b>SetShapeItalic</b>	The input data for the <b>SetShapeItalic</b> <b>WSDL operation</b> .
<b>SetShapeItalicResponse</b>	The result data for the <b>SetShapeItalic</b> 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**isItalic:** A **boolean** that specifies if the text will 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeItalicResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeTextDirection_InputMessage</b>	The request WSDL message for the <b>SetShapeTextDirection WSDL operation</b> .
<b>IPptEdit_SetShapeTextDirection_OutputMessage</b>	The response WSDL message for the <b>SetShapeTextDirection WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeTextDirection</b>	The input data for the <b>SetShapeTextDirection WSDL operation</b> .
<b>SetShapeTextDirectionResponse</b>	The result data for the <b>SetShapeTextDirection WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**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
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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeTextDirectionResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetShapeUnderline_InputMessage</b>	The request WSDL message for the <b>SetShapeUnderline WSDL operation</b> .
<b>IPptEdit_SetShapeUnderline_OutputMessage</b>	The response WSDL message for the <b>SetShapeUnderline WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetShapeUnderline</b>	The input data for the <b>SetShapeUnderline WSDL operation</b> .
<b>SetShapeUnderlineResponse</b>	The result data for the <b>SetShapeUnderline WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

**isUnderline:** A **boolean** that specifies if the shape text will 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeUnderlineResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetTransition_InputMessage</b>	The request WSDL message for the <b>SetTransition WSDL operation</b> .
<b>IPptEdit_SetTransition_OutputMessage</b>	The response WSDL message for the <b>SetTransition WSDL operation</b> .

### 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/PowerPointEditServerInternalService/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
<b>SetTransition</b>	The input data for the <b>SetTransition WSDL operation</b> .
<b>SetTransitionResponse</b>	The result data for the <b>SetTransition WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13).

**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
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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetTransitionApplyAll_InputMessage</b>	The request WSDL message for the <b>SetTransitionApplyAll WSDL operation</b> .
<b>IPptEdit_SetTransitionApplyAll_OutputMessage</b>	The response WSDL message for the <b>SetTransitionApplyAll WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>SetTransitionApplyAll</b>	The input data for the <b>SetTransitionApplyAll WSDL operation</b> .
<b>SetTransitionApplyAllResponse</b>	The result data for the <b>SetTransitionApplyAll WSDL operation</b> .

##### 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:** A **string** that specifies the identifier of the **presentation slide** containing the transition to be copied as specified by **ST\_SlideId** ([ISO/IEC29500-1:2016](#) section 19.7.13).

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionApplyAllResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_SetWordArt_InputMessage</b>	The request WSDL message for the <b>SetWordArt WSDL operation</b> .
<b>IPptEdit_SetWordArt_OutputMessage</b>	The response WSDL message for the <b>SetWordArt WSDL operation</b> .

#### 3.1.4.62.1.1 IPptEdit\_SetWordArt\_InputMessage

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

The **SOAP action** value is:



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
<b>SetWordArt</b>	The input data for the <b>SetWordArt WSDL operation</b> .
<b>SetWordArtResponse</b>	The result data for the <b>SetWordArt WSDL operation</b> .

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetWordArtResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ShapeFormatPainting_InputMessage</b>	The request WSDL message for the <b>ShapeFormatPainting WSDL operation</b> .
<b>IPptEdit_ShapeFormatPainting_OutputMessage</b>	The response WSDL message for the <b>ShapeFormatPainting WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>ShapeFormatPainting</b>	The input data for the <b>ShapeFormatPainting WSDL operation</b> .
<b>ShapeFormatPaintingResponse</b>	The result data for the <b>ShapeFormatPainting WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the **shape** that the formatting is copied from as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**sourceShapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) specifies the identifier of the shape that the formatting is copied from as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21). The shape MUST NOT be a group, **SmartArt**, table, chart, or ActiveX shape.

**destinationSlideId:** A **string** that specifies the identifier of the presentation slide containing the shape that the formatting is applied to as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**destinationShapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that the formatting is applied to as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21). The shape MUST NOT be a SmartArt, table, chart, or ActiveX shape.

### 3.1.4.63.2 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShapeFormatPaintingResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_ShowHideSlide_InputMessage</b>	The request WSDL message for the <b>ShowHideSlide WSDL operation</b> .
<b>IPptEdit_ShowHideSlide_OutputMessage</b>	The response WSDL message for the <b>ShowHideSlide WSDL operation</b> .

##### 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/PowerPointEditServerInternalService/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
<b>ShowHideSlide</b>	The input data for the <b>ShowHideSlide WSDL operation</b> .
<b>ShowHideSlideResponse</b>	The result data for the <b>ShowHideSlide WSDL operation</b> .

### 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:** A **string** that specifies the identifier of the target presentation as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\] section 19.7.13](#)).

**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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShowHideSlideResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_Undo_InputMessage</b>	The request WSDL message for the <b>Undo WSDL operation</b> .
<b>IPptEdit_Undo_OutputMessage</b>	The response WSDL message for the <b>Undo WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>Undo</b>	The input data for the <b>Undo WSDL operation</b> .
<b>UndoResponse</b>	The result data for the <b>Undo WSDL operation</b> .

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UndoResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_UngroupShape_InputMessage</b>	The request WSDL message for the <b>UngroupShape WSDL operation</b> .
<b>IPptEdit_UngroupShape_OutputMessage</b>	The response WSDL message for the <b>UngroupShape WSDL operation</b> .

#### 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/PowerPointEditServerInternalService/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
<b>UngroupShape</b>	The input data for the <b>UngroupShape WSDL operation</b> .
<b>UngroupShapeResponse</b>	The result data for the <b>UngroupShape WSDL operation</b> .

#### 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:** A **string** that specifies the identifier of the **presentation slide** containing the shape that is being modified as specified by **ST\_SlideId** ([\[ISO/IEC29500-1:2016\]](#) section 19.7.13).

**shapeId:** An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([\[ISO/IEC29500-1:2016\]](#) section 20.1.10.21).

#### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UngroupShapeResult" nillable="true" type="tns3: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="tns: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="tns: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
<b>IPptEdit_UpdateCanary_InputMessage</b>	The request WSDL message for the <b>UpdateCanary WSDL operation</b> .
<b>IPptEdit_UpdateCanary_OutputMessage</b>	The response WSDL message for the <b>UpdateCanary WSDL operation</b> .

##### 3.1.4.67.1.1 IPptEdit\_UpdateCanary\_InputMessage

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

The **SOAP action** value is:

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
<b>UpdateCanary</b>	The input data for the <b>UpdateCanary WSDL operation</b> .
<b>UpdateCanaryResponse</b>	The result data for the <b>UpdateCanary WSDL operation</b> .

##### 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UpdateCanaryResult" nillable="true" type="tns3: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/MSPWEDPSEExample.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=14tvmlylk%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;&lt;/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;&lt;/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&Rid=14tvmlylk%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&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&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&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;&lt;font size=6 face=Calibri color="#7293C9"&gt;&lt;&lt;span style='font-
variant:normal;text-transform:uppercase'&gt;&lt;&lt;b&gt;&lt;Fancy Title with
3d.&lt;/b&gt;&lt;&lt;/span&gt;&lt;&lt;/font&gt;&lt;&lt;/p&gt;&lt;</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>

```

```

    <a:DelElems
xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
    <a:Elem>
    <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:Elem>
    <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&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=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fmcfe360c
      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:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditSe
  rverInternalService/" 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="tns:IPptEdit_LogULS_InputMessage"/>
        <wsdl:output
          wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
          ServerInternalService/IPptEdit/LogULSResponse" message="tns: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="tns:IPptEdit_GetPresentationId_InputMessage"/>
        <wsdl:output
          wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
          ServerInternalService/IPptEdit/GetPresentationIdResponse"
          message="tns: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="tns:IPptEdit_GetCoauthUpdates_InputMessage"/>
        <wsdl:output
          wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
          ServerInternalService/IPptEdit/GetCoauthUpdatesResponse"
          message="tns: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="tns:IPptEdit_GetEditPresInfo_InputMessage"/>
        <wsdl:output
          wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
```

```

ServerInternalService/IPptEdit/GetEditPresInfoResponse"
message="tns: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="tns:IPptEdit GetEditPresInfoGetEditSlideById InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse"
message="tns: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="tns:IPptEdit_GetEditPresResources_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresResourcesResponse"
message="tns: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="tns:IPptEdit_GetEditSlide_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlideResponse"
message="tns: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="tns:IPptEdit_MoveSlide_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlideResponse"
message="tns: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="tns:IPptEdit_InsertSlide_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlideResponse"
message="tns: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="tns:IPptEdit_ReplaceText_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceTextResponse"
message="tns: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="tns:IPptEdit_SetAnimation_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimationResponse"
message="tns: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="tns:IPptEdit_SetTransition_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionResponse"
message="tns: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="tns:IPptEdit_SetTransitionApplyAll_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAllResponse"
message="tns: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="tns:IPptEdit_ReorderAnimation_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimationResponse"
message="tns: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="tns:IPptEdit_ClearPlaceholder_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholderResponse"
message="tns: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="tns:IPptEdit_DeleteSlide_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlideResponse"
message="tns: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="tns:IPptEdit_DuplicateSlide_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlideResponse"
message="tns: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="tns:IPptEdit_ShowHideSlide_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShowHideSlideResponse"
message="tns: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="tns:IPptEdit_ReplaceNotes_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotesResponse"
message="tns: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="tns:IPptEdit_Undo_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UndoResponse" message="tns: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="tns:IPptEdit_Redo_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RedoResponse" message="tns: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="tns:IPptEdit_ChangePictureStyle_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangePictureStyleResponse"
message="tns: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="tns:IPptEdit_ResetPicture_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetPictureResponse"
message="tns: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="tns:IPptEdit_MoveShape_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveShapeResponse"
message="tns: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="tns:IPptEdit_ResizeShape_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResizeShapeResponse"
message="tns: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="tns:IPptEdit_RotateShape_InputMessage"/>

```

```

        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RotateShapeResponse"
message="tns: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="tns:IPptEdit_FlipShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/FlipShapeResponse"
message="tns: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="tns:IPptEdit_InsertShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShapeResponse"
message="tns: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="tns:IPptEdit_DuplicateShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShapeResponse"
message="tns: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="tns:IPptEdit_ArrangeShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShapeResponse"
message="tns: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="tns:IPptEdit_UngroupShape_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShapeResponse"
message="tns: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="tns:IPptEdit_ApplyShapeStyle_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyleResponse"
message="tns: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="tns:IPptEdit_ApplyShapeFill_InputMessage"/>

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        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFillResponse"
message="tns: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="tns:IPptEdit_RemoveShapeFill_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFillResponse"
message="tns: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="tns:IPptEdit_ApplyShapeOutlineColor_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineColorResponse"
message="tns: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="tns:IPptEdit_ApplyShapeOutlineWidth_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineWidthResponse"
message="tns: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="tns:IPptEdit_ApplyShapeOutlineDashStyle_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineDashStyleResponse"
message="tns: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="tns:IPptEdit_ApplyShapeOutlineEndStyle_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeOutlineEndStyleResponse"
message="tns: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="tns:IPptEdit_RemoveShapeOutline_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeOutlineResponse"
message="tns:IPptEdit_RemoveShapeOutline_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="SaveAndClose">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit

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ServerInternalService/IPptEdit/SaveAndClose"
message="tns:IPptEdit SaveAndClose InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SaveAndCloseResponse"
message="tns: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="tns:IPptEdit_UpdateCanary_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanaryResponse"
message="tns: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="tns:IPptEdit_Print_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PrintResponse" message="tns: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="tns:IPptEdit_ChangeSmartArtLayout_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse"
message="tns: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="tns:IPptEdit_ChangeSmartArtColor_InputMessage"/>
          <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColorResponse"
message="tns: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="tns:IPptEdit_ChangeSmartArtStyle InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyleResponse"
message="tns: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="tns:IPptEdit_InsertSmartArt_InputMessage"/>
              <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArtResponse"
message="tns: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="tns:IPptEdit_ResetSmartArt_InputMessage"/>

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        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArtResponse"
message="tns: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="tns:IPptEdit_ReverseSmartArt_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArtResponse"
message="tns: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="tns:IPptEdit ApplyTheme InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyThemeResponse"
message="tns: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="tns:IPptEdit_SetWordArt_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArtResponse"
message="tns: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="tns:IPptEdit_InsertClipart_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipartResponse"
message="tns: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="tns:IPptEdit PastePicture InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PastePictureResponse"
message="tns: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="tns:IPptEdit_ShapeFormatPainting_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPaintingResponse"
message="tns: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="tns:IPptEdit_AddComment_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit

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ServerInternalService/IPptEdit/AddCommentResponse"
message="tns: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="tns:IPptEdit DeleteComment InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteCommentResponse"
message="tns: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="tns:IPptEdit_EditComment_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditCommentResponse"
message="tns: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="tns:IPptEdit_MoveComment_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveCommentResponse"
message="tns: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="tns:IPptEdit_SetShapeBold_InputMessage"/>
          <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBoldResponse"
message="tns: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="tns:IPptEdit_SetShapeItalic_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeItalicResponse"
message="tns: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="tns:IPptEdit_SetShapeUnderline InputMessage"/>
              <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeUnderlineResponse"
message="tns: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="tns:IPptEdit_SetShapeAlignment_InputMessage"/>
                <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeAlignmentResponse"
message="tns:IPptEdit_SetShapeAlignment_OutputMessage"/>

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        </wsdl:operation>
        <wsdl:operation name="SetShapeFontName">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontName"
message="tns:IPptEdit_SetShapeFontName_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontNameResponse"
message="tns: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="tns:IPptEdit_SetShapeFontSize_InputMessage"/>
                <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontSizeResponse"
message="tns: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="tns:IPptEdit_SetShapeFontColor_InputMessage"/>
                    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeFontColorResponse"
message="tns: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="tns:IPptEdit_SetShapeBullet_InputMessage"/>
                        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeBulletResponse"
message="tns: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="tns:IPptEdit_SetShapeTextDirection_InputMessage"/>
                            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetShapeTextDirectionResponse"
message="tns: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="tns:IPptEdit_ChangeLayout_InputMessage"/>
                                <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeLayoutResponse"
message="tns:IPptEdit_ChangeLayout_OutputMessage"/>
                                </wsdl:operation>
                            </wsdl:portType>
                            <wsdl:binding name="DefaultBinding IPptEdit" type="tns: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>

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        <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>

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        <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>
        <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: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>

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        </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="tns:AddComment"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_AddComment_OutputMessage">
        <wsdl:part name="parameters" element="tns:AddCommentResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeFill_InputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeFill"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeFill_OutputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeFillResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineColor_InputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeOutlineColor"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineColor_OutputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeOutlineColorResponse"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_InputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeOutlineDashStyle"/>
    </wsdl:message>
    <wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage">
        <wsdl:part name="parameters" element="tns:ApplyShapeOutlineDashStyleResponse"/>
    </wsdl:message>

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```

</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_InputMessage">
  <wsdl:part name="parameters" element="tns:ApplyShapeOutlineEndStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns:ApplyShapeOutlineEndStyleResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ApplyShapeOutlineWidthResponse"/>
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  <wsdl:part name="parameters" element="tns:ApplyThemeResponse"/>
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  <wsdl:part name="parameters" element="tns:ArrangeShape"/>
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<wsdl:message name="IPptEdit_ArrangeShape_OutputMessage">
  <wsdl:part name="parameters" element="tns:ArrangeShapeResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ChangeLayout"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeLayout_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangeLayoutResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangePictureStyle_InputMessage">
  <wsdl:part name="parameters" element="tns:ChangePictureStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangePictureStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangePictureStyleResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ChangeSmartArtColor"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtColor_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangeSmartArtColorResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ChangeSmartArtLayout"/>
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<wsdl:message name="IPptEdit_ChangeSmartArtLayout_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangeSmartArtLayoutResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtStyle_InputMessage">
  <wsdl:part name="parameters" element="tns:ChangeSmartArtStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns:ChangeSmartArtStyleResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ClearPlaceholder"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ClearPlaceholder_OutputMessage">
  <wsdl:part name="parameters" element="tns:ClearPlaceholderResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteComment_InputMessage">
  <wsdl:part name="parameters" element="tns>DeleteComment"/>

```

```

</wsdl:message>
<wsdl:message name="IPptEdit_DeleteComment_OutputMessage">
  <wsdl:part name="parameters" element="tns:DeleteCommentResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteSlide_InputMessage">
  <wsdl:part name="parameters" element="tns:DeleteSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns:DeleteSlideResponse"/>
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  <wsdl:part name="parameters" element="tns:DuplicateShape"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:DuplicateShapeResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:DuplicateSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DuplicateSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns:DuplicateSlideResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:EditComment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_EditComment_OutputMessage">
  <wsdl:part name="parameters" element="tns:EditCommentResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_FlipShape_InputMessage">
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  <wsdl:part name="parameters" element="tns:GetCoauthUpdatesResponse"/>
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  <wsdl:part name="parameters" element="tns:GetEditPresInfoGetEditSlideByIdResponse"/>
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  <wsdl:part name="parameters" element="tns:GetEditPresResources"/>
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  <wsdl:part name="parameters" element="tns:GetEditSlideResponse"/>
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  <wsdl:part name="parameters" element="tns:GetPresentationId"/>
</wsdl:message>
<wsdl:message name="IPptEdit_GetPresentationId_OutputMessage">
  <wsdl:part name="parameters" element="tns:GetPresentationIdResponse"/>

```

```

</wsdl:message>
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  <wsdl:part name="parameters" element="tns:InsertShapeResponse"/>
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  <wsdl:part name="parameters" element="tns:InsertSlide"/>
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  <wsdl:part name="parameters" element="tns:InsertSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertSmartArt_InputMessage">
  <wsdl:part name="parameters" element="tns:InsertSmartArt"/>
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  <wsdl:part name="parameters" element="tns:InsertSmartArtResponse"/>
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  <wsdl:part name="parameters" element="tns:MoveCommentResponse"/>
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  <wsdl:part name="parameters" element="tns:MoveShape"/>
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<wsdl:message name="IPptEdit_MoveShape_OutputMessage">
  <wsdl:part name="parameters" element="tns:MoveShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveSlide_InputMessage">
  <wsdl:part name="parameters" element="tns:MoveSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns:MoveSlideResponse"/>
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</wsdl:message>
<wsdl:message name="IPptEdit_PastePicture_OutputMessage">
  <wsdl:part name="parameters" element="tns:PastePictureResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:Print"/>
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<wsdl:message name="IPptEdit_Print_OutputMessage">
  <wsdl:part name="parameters" element="tns:PrintResponse"/>
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  <wsdl:part name="parameters" element="tns:Redo"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Redo_OutputMessage">
  <wsdl:part name="parameters" element="tns:RedoResponse"/>
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  <wsdl:part name="parameters" element="tns:RemoveShapeFill"/>

```



```

</wsdl:message>
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  <wsdl:part name="parameters" element="tns:RemoveShapeFillResponse"/>
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  <wsdl:part name="parameters" element="tns:RemoveShapeOutlineResponse"/>
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  <wsdl:part name="parameters" element="tns:ReorderAnimationResponse"/>
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  <wsdl:part name="parameters" element="tns:ReplaceTextResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ResetPicture"/>
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<wsdl:message name="IPptEdit_ResetPicture_OutputMessage">
  <wsdl:part name="parameters" element="tns:ResetPictureResponse"/>
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  <wsdl:part name="parameters" element="tns:ResetSmartArt"/>
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  <wsdl:part name="parameters" element="tns:ResetSmartArtResponse"/>
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  <wsdl:part name="parameters" element="tns:ResizeShapeResponse"/>
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</wsdl:message>
<wsdl:message name="IPptEdit_ReverseSmartArt_OutputMessage">
  <wsdl:part name="parameters" element="tns:ReverseSmartArtResponse"/>
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  <wsdl:part name="parameters" element="tns:RotateShapeResponse"/>
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  <wsdl:part name="parameters" element="tns:SaveAndCloseResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetAnimation_InputMessage">
  <wsdl:part name="parameters" element="tns:SetAnimation"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetAnimation_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetAnimationResponse"/>

```

```

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  <wsdl:part name="parameters" element="tns:SetShapeAlignment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetShapeAlignment_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeAlignmentResponse"/>
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  <wsdl:part name="parameters" element="tns:SetShapeBold"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetShapeBold_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeBoldResponse"/>
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  <wsdl:part name="parameters" element="tns:SetShapeBullet"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetShapeBullet_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeBulletResponse"/>
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  <wsdl:part name="parameters" element="tns:SetShapeFontColor"/>
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<wsdl:message name="IPptEdit_SetShapeFontColor_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeFontColorResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:SetShapeFontName"/>
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<wsdl:message name="IPptEdit_SetShapeFontName_OutputMessage">
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  <wsdl:part name="parameters" element="tns:SetShapeFontSizeResponse"/>
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  <wsdl:part name="parameters" element="tns:SetShapeItalic"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetShapeItalic_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeItalicResponse"/>
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<wsdl:message name="IPptEdit_SetShapeTextDirection_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeTextDirectionResponse"/>
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  <wsdl:part name="parameters" element="tns:SetShapeUnderline"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetShapeUnderline_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetShapeUnderlineResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransition_InputMessage">
  <wsdl:part name="parameters" element="tns:SetTransition"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransition_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetTransitionResponse"/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:SetTransitionApplyAll"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransitionApplyAll_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetTransitionApplyAllResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetWordArt_InputMessage">
  <wsdl:part name="parameters" element="tns:SetWordArt"/>

```

```

</wsdl:message>
<wsdl:message name="IPptEdit_SetWordArt_OutputMessage">
  <wsdl:part name="parameters" element="tns:SetWordArtResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShapeFormatPainting_InputMessage">
  <wsdl:part name="parameters" element="tns:ShapeFormatPainting"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShapeFormatPainting_OutputMessage">
  <wsdl:part name="parameters" element="tns:ShapeFormatPaintingResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShowHideSlide_InputMessage">
  <wsdl:part name="parameters" element="tns:ShowHideSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShowHideSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns:ShowHideSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Undo_InputMessage">
  <wsdl:part name="parameters" element="tns:Undo"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Undo_OutputMessage">
  <wsdl:part name="parameters" element="tns:UndoResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UngroupShape_InputMessage">
  <wsdl:part name="parameters" element="tns:UngroupShape"/>
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<wsdl:message name="IPptEdit_UngroupShape_OutputMessage">
  <wsdl:part name="parameters" element="tns:UngroupShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UpdateCanary_InputMessage">
  <wsdl:part name="parameters" element="tns:UpdateCanary"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UpdateCanary_OutputMessage">
  <wsdl:part name="parameters" element="tns:UpdateCanaryResponse"/>
</wsdl:message>
</wsdl:definitions>

```

## 7 Appendix B: Full XML Schema

Schema name	Prefix	Section
<a href="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared">http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared</a>	tns1	<a href="#">7.1</a>
<a href="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface">http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface</a>	tns2	<a href="#">7.2</a>
<a href="http://schemas.datacontract.org/2004/07/p">http://schemas.datacontract.org/2004/07/p</a>	tns3	<a href="#">7.3</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/Arrays">http://schemas.microsoft.com/2003/10/Serialization/Arrays</a>	q3	<a href="#">7.4</a>
<a href="http://schemas.microsoft.com/2003/10/Serialization/">http://schemas.microsoft.com/2003/10/Serialization/</a>	tns4	<a href="#">7.5</a>
<a href="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/</a>	tns	<a href="#">7.6</a>

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:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.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"/>
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<xs:enumeration value="ErrorCannotOpenEmbeddedFonts"/>
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<xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
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<xs:enumeration value="ErrorCannotOpenDocumentGatekeeperFailure"/>
<xs:enumeration value="ErrorEditWorkerTimeout"/>
<xs:enumeration value="ErrorEditSlideCorruption"/>
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<xs:enumeration value="ErrorClipartCannotConnect"/>
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<xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
<xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
<xs:enumeration value="ErrorInProgress"/>
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<xs:enumeration value="ErrorImageNoAccess"/>
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<xs:enumeration value="ErrorWacConversionCannotFindSourceDocument"/>
<xs:enumeration value="ErrorWacConversionWorkerException"/>
<xs:enumeration value="ErrorWacConversionWorkerCrashed"/>
<xs:enumeration value="ErrorWacConversionWorkerHung"/>
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<xs:enumeration value="ErrorWacConversionFirstServerResult"/>
<xs:enumeration value="ErrorCannotOpenDocumentWrongExt"/>
<xs:enumeration value="ErrorCannotOpenDocumentStgDocFileCorrupt"/>
<xs:enumeration value="ErrorCannotOpenDocumentStgFileAlreadyExists"/>
<xs:enumeration value="ErrorCannotOpenDocumentMmcfcPackagePartNotFound"/>
<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="tns1: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"?>
```

```

<xs:schema
xmlns:tns2="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="tns2:ClientActions" />
</xs:schema>

```

### 7.3 http://schemas.datacontract.org/2004/07/p Schema

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns3="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: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:complexType name="ServiceResult">
    <xs:sequence>
      <xs:element minOccurs="0" name="Error" nillable="true" type="tns3:ServiceError" />
      <xs:element minOccurs="0" name="Result" nillable="true" type="xs:anyType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ServiceResult" nillable="true" type="tns3:ServiceResult" />
  <xs:complexType name="ServiceError">
    <xs:sequence>
      <xs:element
xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interf
ace.Shared" minOccurs="0" name="Code" type="tns1:ErrorCode" />
      <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string" />
      <xs:element
xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.I
nterface" minOccurs="0" name="RecommendedActions" type="tns2:ClientActions" />
      <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string" />
      <xs:element minOccurs="0" name="Type" type="tns3:ServiceErrorType" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ServiceError" nillable="true" type="tns3: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="tns3:ServiceErrorType" />

```

```

<xs:complexType name="CoauthUpdate">
  <xs:sequence>
    <xs:element minOccurs="0" name="State" nillable="true" type="tns3:CoauthState"/>
    <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="CoauthUpdate" nillable="true" type="tns3:CoauthUpdate"/>
<xs:complexType name="CoauthState">
  <xs:sequence>
    <xs:element minOccurs="0" name="cs" type="xs:int"/>
    <xs:element minOccurs="0" name="et" nillable="true" type="tns3: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="tns3:ContentUpdateInfo"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="CoauthState" nillable="true" type="tns3:CoauthState"/>
<xs:complexType name="ArrayOfEditorInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditorInfo" nillable="true"
type="tns3:EditorInfo"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditorInfo" nillable="true" type="tns3: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="tns3: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="tns3:ArrayOfSlideUpdateInfo"/>
    <xs:element minOccurs="0" name="undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ContentUpdateInfo" nillable="true" type="tns3:ContentUpdateInfo"/>
<xs:complexType name="ArrayOfSlideUpdateInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SlideUpdateInfo" nillable="true"
type="tns3:SlideUpdateInfo"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfSlideUpdateInfo" nillable="true"
type="tns3:ArrayOfSlideUpdateInfo"/>
<xs:complexType name="SlideUpdateInfo">
  <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="tns3:SlideID"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="SlideUpdateInfo" nillable="true" type="tns3:SlideUpdateInfo"/>
<xs:complexType name="SlideID">
  <xs:sequence>
    <xs:element minOccurs="0" name="Cid" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="Sid" type="xs:unsignedInt"/>
  </xs:sequence>

```

```

</xs:complexType>
<xs:element name="SlideID" nillable="true" type="tns3:SlideID"/>
<xs:complexType name="EditPresentationInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="CompatProblems" type="xs:boolean"/>
    <xs:element minOccurs="0" name="EditSlideInfos" nillable="true"
type="tns3:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="MainMasters" nillable="true"
type="tns3: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="tns3:Point"/>
    <xs:element minOccurs="0" name="Slide" nillable="true" type="tns3:EditSlide"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
    <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditPresentationInfo" nillable="true" type="tns3:EditPresentationInfo"/>
<xs:complexType name="ArrayOfEditSlideInfoFe">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideInfoFe" nillable="true"
type="tns3:EditSlideInfoFe"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditSlideInfoFe" nillable="true"
type="tns3:ArrayOfEditSlideInfoFe"/>
<xs:complexType name="EditSlideInfoFe">
  <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="tns3:ViewElement"/>
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditSlideInfoFe" nillable="true" type="tns3:EditSlideInfoFe"/>
<xs:complexType name="ViewElement">
  <xs:sequence>
    <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Clip" nillable="true" type="tns3: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="tns3:Point"/>
    <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ViewElement" nillable="true" type="tns3:ViewElement"/>
<xs:complexType name="ClippingInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="Bounds" nillable="true" type="tns3:Rectangle"/>
    <xs:element minOccurs="0" name="TotalHeight" type="xs:int"/>
    <xs:element minOccurs="0" name="TotalWidth" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ClippingInfo" nillable="true" type="tns3:ClippingInfo"/>
<xs:complexType name="Rectangle">
  <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>
<xs:element name="Rectangle" nillable="true" type="tns3:Rectangle"/>
<xs:complexType name="Point">
  <xs:sequence>
    <xs:element minOccurs="0" name="X" type="xs:int"/>

```



```

        <xs:element minOccurs="0" name="Y" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="Point" nillable="true" type="tns3:Point"/>
<xs:complexType name="ArrayOfMainMasterFe">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterFe" nillable="true"
type="tns3:MainMasterFe"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfMainMasterFe" nillable="true" type="tns3:ArrayOfMainMasterFe"/>
<xs:complexType name="MainMasterFe">
    <xs:sequence>
        <xs:element minOccurs="0" name="ContentMasters" nillable="true"
type="tns3: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>
<xs:element name="MainMasterFe" nillable="true" type="tns3:MainMasterFe"/>
<xs:complexType name="ArrayOfContentMasterFe">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ContentMasterFe" nillable="true"
type="tns3:ContentMasterFe"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfContentMasterFe" nillable="true"
type="tns3:ArrayOfContentMasterFe"/>
<xs:complexType name="ContentMasterFe">
    <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>
<xs:element name="ContentMasterFe" nillable="true" type="tns3:ContentMasterFe"/>
<xs:complexType name="EditSlide">
    <xs:sequence>
        <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3: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="tns3:ArrayOfEditAnimInfo"/>
        <xs:element minOccurs="0" name="EditShapes" nillable="true"
type="tns3:ArrayOfEditShape"/>
        <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns3:EditTransitionInfo"/>
        <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
        <xs:element minOccurs="0" name="ID" type="tns3: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="tns3:Notes"/>
        <xs:element minOccurs="0" name="SlideId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="Theme" nillable="true" type="tns3:Theme"/>
        <xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true"
type="tns3:ViewElement"/>
        <xs:element minOccurs="0" name="ViewElems" nillable="true"
type="tns3:ArrayOfViewElement"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="EditSlide" nillable="true" type="tns3:EditSlide"/>
<xs:complexType name="ArrayOfComment">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="Comment" nillable="true"
type="tns3:Comment"/>
    </xs:sequence>

```

```

</xs:complexType>
<xs:element name="ArrayOfComment" nillable="true" type="tns3:ArrayOfComment"/>
<xs:complexType name="Comment">
  <xs:sequence>
    <xs:element minOccurs="0" name="Children" nillable="true" type="tns3: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="tns3:Point"/>
    <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="Comment" nillable="true" type="tns3:Comment"/>
<xs:complexType name="ArrayOfEditAnimInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditAnimInfo" nillable="true"
type="tns3:EditAnimInfo"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditAnimInfo" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
<xs:complexType name="EditAnimInfo">
  <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>
<xs:element name="EditAnimInfo" nillable="true" type="tns3:EditAnimInfo"/>
<xs:complexType name="ArrayOfEditShape">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditShape" nillable="true"
type="tns3:EditShape"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditShape" nillable="true" type="tns3:ArrayOfEditShape"/>
<xs:complexType name="EditShape">
  <xs:sequence>
    <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns3: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="tns3: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:sequence>
</xs:complexType>

```

```

    <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="tns3: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="tns3: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>
<xs:element name="EditShape" nillable="true" type="tns3:EditShape"/>
<xs:complexType name="FontSizeMapping">
  <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>
<xs:element name="FontSizeMapping" nillable="true" type="tns3:FontSizeMapping"/>
<xs:complexType name="BoundingRegion">
  <xs:sequence>
    <xs:element minOccurs="0" name="BottomLeft" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns3:Point"/>
    <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns3:Point"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="BoundingRegion" nillable="true" type="tns3:BoundingRegion"/>
<xs:complexType name="SmartArtInfo">
  <xs:sequence>
    <xs:element minOccurs="0" name="fReverseChecked" type="xs:boolean"/>
    <xs:element minOccurs="0" name="fReverseEnabled" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="SmartArtInfo" nillable="true" type="tns3:SmartArtInfo"/>
<xs:complexType name="EditTransitionInfo">
  <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>
<xs:element name="EditTransitionInfo" nillable="true" type="tns3:EditTransitionInfo"/>
<xs:complexType name="Notes">
  <xs:sequence>
    <xs:element minOccurs="0" name="Html" nillable="true" type="tns3:Html"/>
    <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="Notes" nillable="true" type="tns3:Notes"/>
<xs:complexType name="Html">
  <xs:sequence>
    <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element name="Html" nillable="true" type="tns3:Html"/>
<xs:complexType name="Theme">
  <xs:sequence>
    <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Light1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Light2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true"
type="tns3:PresetSchemeColorMapping"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="Theme" nillable="true" type="tns3:Theme"/>
<xs:complexType name="ThemeColor">
  <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>
<xs:element name="ThemeColor" nillable="true" type="tns3:ThemeColor"/>
<xs:complexType name="PresetSchemeColorMapping">
  <xs:sequence>
    <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Background1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Background2" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Text1" nillable="true" type="tns3:ThemeColor"/>
    <xs:element minOccurs="0" name="Text2" nillable="true" type="tns3:ThemeColor"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="PresetSchemeColorMapping" nillable="true"
type="tns3:PresetSchemeColorMapping"/>
<xs:complexType name="ArrayOfViewElement">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ViewElement" nillable="true"
type="tns3:ViewElement"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfViewElement" nillable="true" type="tns3:ArrayOfViewElement"/>
<xs:complexType name="SlideIdList">
  <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>
<xs:element name="SlideIdList" nillable="true" type="tns3:SlideIdList"/>
<xs:complexType name="EditPresentationResources">
  <xs:sequence>
    <xs:element minOccurs="0" name="MainMasterResources" nillable="true"
type="tns3:ArrayOfMainMasterResourcesFe"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditPresentationResources" nillable="true"
type="tns3:EditPresentationResources"/>
<xs:complexType name="ArrayOfMainMasterResourcesFe">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterResourcesFe"
nillable="true" type="tns3:MainMasterResourcesFe"/>
  </xs:sequence>

```

```

</xs:complexType>
<xs:element name="ArrayOfMainMasterResourcesFe" nillable="true"
type="tns3:ArrayOfMainMasterResourcesFe"/>
<xs:complexType name="MainMasterResourcesFe">
  <xs:sequence>
    <xs:element minOccurs="0" name="LineStyles" nillable="true"
type="tns3:ArrayOfStyleGalleryItem"/>
    <xs:element minOccurs="0" name="MasterId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ShapeStyles" nillable="true"
type="tns3:ArrayOfStyleGalleryItem"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="MainMasterResourcesFe" nillable="true"
type="tns3:MainMasterResourcesFe"/>
<xs:complexType name="ArrayOfStyleGalleryItem">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="StyleGalleryItem" nillable="true"
type="tns3:StyleGalleryItem"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfStyleGalleryItem" nillable="true"
type="tns3:ArrayOfStyleGalleryItem"/>
<xs:complexType name="StyleGalleryItem">
  <xs:sequence>
    <xs:element minOccurs="0" name="Icon" nillable="true" type="tns3:ViewElement"/>
    <xs:element minOccurs="0" name="StyleId" type="xs:unsignedInt"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="StyleGalleryItem" nillable="true" type="tns3:StyleGalleryItem"/>
<xs:complexType name="EditCommandResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="PresChanges" nillable="true"
type="tns3:EditPresentationChanges"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditCommandResponse" nillable="true" type="tns3:EditCommandResponse"/>
<xs:complexType name="EditPresentationChanges">
  <xs:sequence>
    <xs:element minOccurs="0" name="AddedSlideInfos" nillable="true"
type="tns3:ArrayOfEditSlideInfoFe"/>
    <xs:element minOccurs="0" name="AddedSlides" nillable="true"
type="tns3:ArrayOfEditSlide"/>
    <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
    <xs:element minOccurs="0" name="MainMasterIds" nillable="true"
type="tns3:SlideIdList"/>
    <xs:element minOccurs="0" name="ModifiedSlides" nillable="true"
type="tns3:ArrayOfEditSlideChanges"/>
    <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
    <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
    <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditPresentationChanges" nillable="true"
type="tns3:EditPresentationChanges"/>
<xs:complexType name="ArrayOfEditSlide">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true"
type="tns3:EditSlide"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditSlide" nillable="true" type="tns3:ArrayOfEditSlide"/>
<xs:complexType name="ArrayOfEditSlideChanges">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true"
type="tns3:EditSlideChanges"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditSlideChanges" nillable="true"
type="tns3:ArrayOfEditSlideChanges"/>

```

```

<xs:complexType name="EditSlideChanges">
  <xs:sequence>
    <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3: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="tns3:ArrayOfEditAnimInfo"/>
    <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns3:EditTransitionInfo"/>
    <xs:element minOccurs="0" name="Elems" nillable="true" type="tns3: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="tns3:ArrayOfEditShape"/>
    <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
    <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3:ViewElement"/>
    <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="EditSlideChanges" nillable="true" type="tns3: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="tns3:PptViewingService.PrintResult"/>
</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:tns4="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="tns4:char"/>
<xs:simpleType name="char">
  <xs:restriction base="xs:int"/>
</xs:simpleType>
<xs:element name="duration" nillable="true" type="tns4: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="tns4:guid"/>
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
  </xs:restriction>
</xs:simpleType>
<xs: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/PowerPointEditServerInternalService/> 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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="LogULSResult" nillable="true" type="tns3: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">
    <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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetCoauthUpdatesResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresResourcesResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditSlideResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveSlideResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSlideResult" nillable="true" type="tns3: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:complexType>
  </xs:element>
  <xs:element name="ReplaceTextResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceTextResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetAnimationResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionApplyAllResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReorderAnimation">
    <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>
<xs:element name="ReorderAnimationResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReorderAnimationResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ClearPlaceholderResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteSlideResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateSlideResult" nillable="true" type="tns3: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"/>

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        <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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShowHideSlideResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceNotesResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UndoResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RedoResult" nillable="true" type="tns3: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>
    </xs:complexType>

```

```

</xs:element>
<xs:element name="ChangePictureStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangePictureStyleResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ResetPicture">
  <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="ResetPictureResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetPictureResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="MoveShape">
  <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>
<xs:element name="MoveShapeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveShapeResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ResizeShape">
  <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>
<xs:element name="ResizeShapeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResizeShapeResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RotateShape">
  <xs:complexType>
    <xs:sequence>

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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"/>
        <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
        <xs:element minOccurs="0" name="degrees" type="xs:int"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="RotateShapeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RotateShapeResult" nillable="true" type="tns3:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="FlipShape">
    <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>
<xs:element name="FlipShapeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="FlipShapeResult" nillable="true" type="tns3: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"/>
            <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>
<xs:element name="InsertShapeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertShapeResult" nillable="true" type="tns3:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DuplicateShape">
    <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>
<xs:element name="DuplicateShapeResponse">

```

```

<xs:complexType>
  <xs:sequence>
    <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateShapeResult" nillable="true" type="tns3:ServiceResult"/>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ArrangeShape">
  <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>
<xs:element name="ArrangeShapeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ArrangeShapeResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UngroupShape">
  <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="UngroupShapeResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UngroupShapeResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeStyle">
  <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>
<xs:element name="ApplyShapeStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeStyleResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeFill">
  <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:sequence>
  </xs:complexType>
</xs:element>

```

```

        <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeFillResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="RemoveShapeFill">
    <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="RemoveShapeFillResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineColor">
    <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>
  <xs:element name="ApplyShapeOutlineColorResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineColorResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineWidth">
    <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>
  <xs:element name="ApplyShapeOutlineWidthResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineWidthResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ApplyShapeOutlineDashStyle">

```



```

<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>
<xs:element name="ApplyShapeOutlineDashStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeOutlineEndStyle">
  <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>
<xs:element name="ApplyShapeOutlineEndStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeOutlineResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SaveAndClose">
  <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>
<xs:element name="SaveAndCloseResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SaveAndCloseResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:element name="UpdateCanary">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UpdateCanaryResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UpdateCanaryResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Print">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="PrintResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PrintResult" nillable="true" type="tns3: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"/>
      <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>
<xs:element name="ChangeSmartArtLayoutResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtLayoutResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ChangeSmartArtColor">
  <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>
<xs:element name="ChangeSmartArtColorResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtColorResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="ChangeSmartArtStyle">
  <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>
<xs:element name="ChangeSmartArtStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtStyleResult" nillable="true" type="tns3: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>
  </xs:complexType>
</xs:element>
<xs:element name="InsertSmartArtResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSmartArtResult" nillable="true" type="tns3: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"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ResetSmartArtResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ReverseSmartArt">
  <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="ReverseSmartArtResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReverseSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

        </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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyThemeResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetWordArtResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertClipartResult" nillable="true" type="tns3: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"/>
          <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="PastePictureResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="PastePictureResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShapeFormatPaintingResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="AddCommentResult" nillable="true" type="tns3: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>
        <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteCommentResult" nillable="true" type="tns3:ServiceResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

    </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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="EditCommentResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveCommentResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBoldResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeItalicResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeUnderlineResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeAlignmentResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontNameResult" nillable="true" type="tns3: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"/>
      <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:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetShapeFontSizeResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontSizeResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeFontColorResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeBulletResult" nillable="true" type="tns3: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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetShapeTextDirectionResult" nillable="true" type="tns3: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"/>

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        <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:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeLayoutResult" nillable="true" type="tns3: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 updates to those products.

- Microsoft PowerPoint 2010
- Microsoft PowerPoint Online
- Microsoft PowerPoint 2013
- Microsoft PowerPoint 2016

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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 <code>ImgId</code> as specified by <b>ViewElement</b> (section <a href="#">2.2.4.51</a> ).
Pid	MUST be a valid identifier for a presentation as specified in <b>GetPresentationId</b> (section <a href="#">3.1.4.27</a> ).

<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 <b>string</b> ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the <b>presentation slide</b> as specified by <b>ST_SlideId</b> ([ISO/IEC29500-1:2016] section 19.7.13).
ShapeId	MUST be a valid <b>unsignedInt</b> ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by <b>ST_DrawingElementId</b> ([ISO/IEC29500-1:2016] section 20.1.10.21).

<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.

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[<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](mailto:dochelp@microsoft.com).

Section	Description	Revision class
<a href="#">3.1.4.2.2.1</a> ApplyShapeFill	Updated description for slideId and shapeId.	Minor
<a href="#">3.1.4.30.2.1</a> InsertSlide	Updated description for dstId, mainMasterId and contentMasterId.	Minor
<a href="#">3.1.4.37.2.2</a> PrintResponse	Updated description for PrintResult element.	Minor

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