

[MS-PWEDPS]: PowerPoint Web Editor Data Protocol

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Revision Summary

| Date | Revision History | Revision Class | Comments |
|------------|------------------|----------------|--|
| 07/13/2009 | 0.1 | Major | Initial Availability |
| 08/28/2009 | 0.2 | Editorial | Revised and edited the technical content |
| 11/06/2009 | 0.3 | Editorial | Revised and edited the technical content |
| 02/19/2010 | 1.0 | Major | Updated and revised the technical content |
| 03/31/2010 | 1.01 | Editorial | Revised and edited the technical content |
| 04/30/2010 | 1.02 | Editorial | Revised and edited the technical content |
| 06/07/2010 | 1.03 | Editorial | Revised and edited the technical content |
| 06/29/2010 | 1.04 | Editorial | Changed language and formatting in the technical content. |
| 07/23/2010 | 1.05 | Minor | Clarified the meaning of the technical content. |
| 09/27/2010 | 1.05 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.06 | Minor | Clarified the meaning of the technical content. |
| 12/17/2010 | 1.06 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 03/18/2011 | 1.06 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 06/10/2011 | 2.0 | Major | Significantly changed the technical content. |
| 01/20/2012 | 3.0 | Major | Significantly changed the technical content. |
| 04/11/2012 | 3.0 | No change | No changes to the meaning, language, or formatting of the technical content. |
| 07/16/2012 | 3.0 | No change | No changes to the meaning, language, or formatting of the technical content. |
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| 02/11/2013 | 5.0 | Major | Significantly changed 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 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)

Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

language code identifier (LCID)

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

absolute URL

ActiveX control

build identifier

canary

comment

cookie

cross-site request forgery

cross-site scripting

Hypertext Markup Language (HTML)

ink

main master slide

OLE object

placeholder

presentation

presentation slide

right-to-left

shape

Simple Object Access Protocol (SOAP)

slide

slide layout

SmartArt

SOAP action

SOAP body

SOAP fault

SOAP message

theme

title master slide

Uniform Resource Locator (URL)

Web Services Description Language (WSDL)

website

WSDL message

WSDL operation

XML namespace

XML namespace prefix

XML schema z-order

The following terms are specific to this document:

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

1.2 References

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

1.2.1 Normative References

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

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

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

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

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

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

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

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

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

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

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

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

1.2.2 Informative References

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

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

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

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

[RFC2822] Resnick, P., Ed., "Internet Message Format", STD 11, RFC 2822, April 2001, <http://www.ietf.org/rfc/rfc2822.txt>

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part2-20030624>

1.3 Protocol Overview (Synopsis)

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

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

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

The following diagram shows the underlying messaging and transport stack used by the protocol:

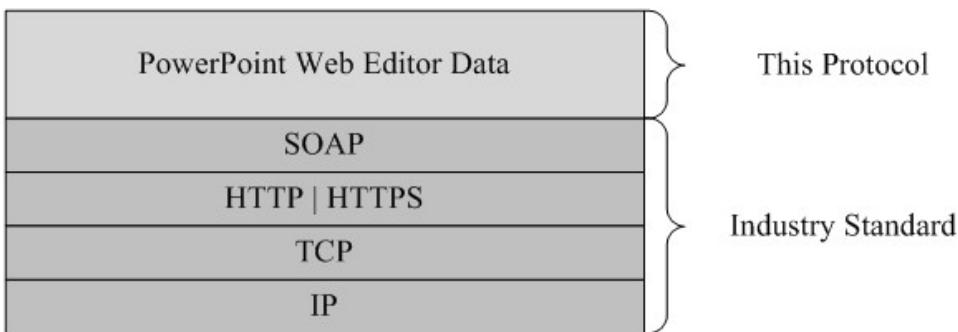


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a set of **Web sites (1)** 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 (1), 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 (1), 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 be less restrictive than the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be empty, null, or not present but the behavior of the protocol as specified restricts the same elements to being non-empty, not null, and present.

2.1 Transport

Protocol servers MUST support SOAP over HTTP. Protocol servers SHOULD additionally support SOAP over HTTPS for securing communication with clients. Protocol 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 [XMLSHEMA1] and [XMLSHEMA2], 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 | http://schemas.microsoft.com/2003/10/Serialization/Arrays | |
| soap | http://schemas.xmlsoap.org/wsdl/soap/ | [SOAP1.1] |
| tns | http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared | |
| tns1 | http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface | |
| tns2 | http://schemas.datacontract.org/2004/07/p | |
| tns3 | http://schemas.microsoft.com/2003/10/Serialization/ | |
| tns4 | http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ | |
| tns5 | http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports | |
| wsa w | http://www.w3.org/2006/05/addressing/wsdl | |

| Pref ix | Namespace URI | Reference |
|---------|----------------------------------|--------------------------------|
| wsdl | http://schemas.xmlsoap.org/wsdl/ | [WSDL] |
| xs | http://www.w3.org/2001/XMLSchema | [XMLSCHE MA1] [XMLSCHE MA2] |

2.2.2 Messages

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

2.2.3 Elements

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

2.2.4 Complex Types

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

| Complex type | Description |
|--------------------------------|---|
| ArrayOfComment | The ArrayOfComment complex type<2> specifies a list of Comment elements. |
| ArrayOfContentMasterFe | The ArrayOfContentMasterFe complex type specifies a list of ContentMasterFe elements. |
| ArrayOfEditAnimInfo | The ArrayOfEditAnimInfo complex type<3> specifies a list of EditAnimInfo elements. |
| ArrayOfEditorInfo | The ArrayOfEditorInfo complex type<4> specifies a list of EditorInfo elements. |
| ArrayOfEditShape | The ArrayOfEditShape complex type specifies a list of EditShape elements. |
| ArrayOfEditSlide | The ArrayOfEditSlide complex type specifies a list of EditSlide elements. |
| ArrayOfEditSlideChanges | The ArrayOfEditSlideChanges complex type specifies a list of EditSlideChanges elements. |
| ArrayOfEditSlideInfoFe | The ArrayOfEditSlideInfoFe complex type specifies a list of EditSlideInfoFe elements. |
| ArrayOfMainMasterFe | The ArrayOfMainMasterFe complex type specifies a list of MainMasterFe elements. |
| ArrayOfStyleGalleryItem | The ArrayOfStyleGalleryItem complex type<5> specifies a list of StyleGalleryItem elements. |
| ArrayOfunsignedInt | The ArrayOfunsignedInt complex type specifies a list of unsignedInt elements ([XMLSCHEMA2] section 3.3.22). |

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

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

2.2.4.1 ArrayOfComment

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

The **ArrayOfComment** complex type [18](#) specifies a list of **Comment** elements.

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

Comment: Each element MUST specify a **Comment** complex type (section [2.2.4.17](#)) instance.

2.2.4.2 ArrayOfContentMasterFe

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

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

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

ContentMasterFe: Each element MUST specify a **ContentMasterFe** complex type (section [2.2.4.18](#)) instance.

2.2.4.3 ArrayOfEditAnimInfo

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

The **ArrayOfEditAnimInfo** complex type[<19>](#) specifies a list of **EditAnimInfo** elements.

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

EditAnimInfo: Each element MUST specify an **EditAnimInfo** complex type (section [2.2.4.19](#)) instance.

2.2.4.4 ArrayOfEditorInfo

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

The **ArrayOfEditorInfo** complex type[<20> specifies a list of **EditorInfo** elements.](#)

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

EditorInfo: Each element MUST specify an **EditorInfo** complex type (section [2.2.4.21](#)) instance.

2.2.4.5 ArrayOfEditShape

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

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

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

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

EditShape: Each element MUST specify an **EditShape** complex type (section [2.2.4.24](#)) instance.

2.2.4.6 ArrayOfEditSlide

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

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

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

EditSlide: Each element MUST specify an **EditSlide** complex type (section [2.2.4.25](#)) instance.

2.2.4.7 ArrayOfEditSlideChanges

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

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

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

EditSlideChanges: Each element MUST specify an **EditSlideChanges** complex type (section [2.2.4.26](#)) instance.

2.2.4.8 ArrayOfEditSlideInfoFe

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

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

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

EditSlideInfoFe: Each element MUST specify an **EditSlideInfoFe** complex type (section [2.2.4.27](#)) instance.

2.2.4.9 ArrayOfMainMasterFe

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

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

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

MainMasterFe: Each element MUST specify a **MainMasterFe** complex type (section [2.2.4.31](#)) instance.

2.2.4.10 ArrayOfStyleGalleryItem

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

The **ArrayOfStyleGalleryItem** complex type [21](#) specifies a list of **StyleGalleryItem** elements.

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

StyleGalleryItem: Each element MUST specify a **StyleGalleryItem** complex type (section [2.2.4.42](#)) instance.

2.2.4.11 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).

2.2.4.12 ArrayOfViewElement

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

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

```

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

```

ViewElement: Each element MUST specify a **View Element** complex type (section [2.2.4.45](#)) instance.

2.2.4.13 BoundingRegion

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

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

```

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

```

BottomLeft: A **Point** complex element (section [2.2.4.33](#)) 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.

2.2.4.14 ClippingInfo

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

The **ClippingInfo** complex type[<23>](#) specifies a region within an image.

```

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

```

Bounds: A **Rectangle** complex element (section [2.2.4.36](#)) 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.

2.2.4.15 CoauthState

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

The **CoauthState** complex type[<24>](#) specifies the co-authoring state of the presentation.

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

2.2.4.16 CoauthUpdate

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

The **CoauthUpdate** complex type[<25> specifies the co-authoring state of the presentation.](#)

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

State: A **CoauthState** complex element (section [2.2.4.15](#)) that specifies the co-authoring state of the presentation.

Token: Reserved. Must be ignored.

2.2.4.17 Comment

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

The **Comment** complex type [\[26\]](#) specifies a single comment, and its replies.

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

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

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

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

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

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

pos: A **Point** complex type (section [2.2.4.33](#)) that specifies the position of the comment on the slide.

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

2.2.4.18 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** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.15). This element MUST be present.

2.2.4.19 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>
```

BuildIds: An **ArrayOfunsignedInt** complex element (section [2.2.4.11](#)) that specifies the list of **build identifiers**. This element MUST be present.

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

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

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

2.2.4.20 EditCommandResponse

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

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

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

PresChanges: An **EditPresentationChanges** complex type (section [2.2.4.22](#)) that specifies the content of the presentation that is modified.

2.2.4.21 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.

2.2.4.22 EditPresentationChanges

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

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

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

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

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

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

MainMasterIds: A **SlideIdList** complex element (section [2.2.4.40](#)) 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 [3.1.4.34](#)) is possible. This element MUST be present.

SlideOrder: A **SlideIdList** complex element (section [2.2.4.40](#)) that specifies the order of the presentation slides.

Undo: A **boolean** that specifies whether an **Undo** operation (section [3.1.4.52](#)) is possible. This element MUST be present.

2.2.4.23 EditPresentationInfo

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

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

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

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

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

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

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

Redo: A **boolean** that specifies whether a **Redo** operation (section [3.1.4.34](#)) 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 [2.2.4.33](#)) that specifies the dimensions of the presentation slides. This element MUST be present.

Slide: Reserved. MUST be ignored.

SlideOrder: A **SlideIdList** complex element (section [2.2.4.40](#)) that specifies the order of the presentation slides. This element MUST be present.

Undo: A **boolean** that specifies whether an **Undo** operation (section [3.1.4.52](#)) is possible. This element MUST be present.

2.2.4.24 EditShape

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

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

```
<xs:complexType name="EditShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns2:Rectangle"/>
    <xs:element minOccurs="0" name="EditHtml" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FFlippedHorizontally" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FFlippedVertically" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FontSizeMapping" nillable="true"
      type="tns2:FontSizeMapping"/>
    <xs:element minOccurs="0" name="HasEffectAndNoFill" type="xs:boolean"/>
    <xs:element minOccurs="0" name="IsActiveX" type="xs:boolean"/>
    <xs:element minOccurs="0" name="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="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="PlaceholderType" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="RotatedBoundingRegion" nillable="true"
      type="tns2:BoundingRegion"/>
    <xs:element minOccurs="0" name="Rotation" type="xs:int"/>
    <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="ShapeViewElemId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="SmartArtInfo" nillable="true" type="tns2:SmartArtInfo"/>
    <xs:element minOccurs="0" name="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 [2.2.4.36](#)) 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.

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.

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.

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.

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 [2.2.4.13](#)) 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 [2.2.4.45](#)) for the shape. This element MUST be present.

SmartArtInfo: A **SmartArtInfo** complex element (section [2.2.4.41](#)) that specifies information about the SmartArt diagram. This element MUST be present if and only if **IsSmartArt** is true.

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.

2.2.4.25 EditSlide

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

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

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

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

ContentMasterId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the **ContentMasterFe** complex element (section [2.2.4.18](#)) 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 [2.2.4.28](#)) 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 [2.2.4.39](#)) 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 [2.2.4.32](#)) 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 [2.2.4.43](#)) that specifies the theme for the presentation slide. This element MUST be present.

ThumbnailViewElement: A **ViewElement** complex element (section [2.2.4.45](#)) that specifies the thumbnail of the presentation slide. This element MUST be present.

ViewElems: An **ArrayOfViewElement** complex element (section [2.2.4.12](#)) that specifies the **ViewElement** elements for slide content of the presentation slide. This element MUST be present.

2.2.4.26 EditSlideChanges

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

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

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

```
<xs:complexType name="EditSlideChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Comments" nillable="true" type="tns2:ArrayOfComment"/>
    <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
    <xs:element minOccurs="0" name="EditAnims" nillable="true"
      type="tns2:ArrayOfEditAnimInfo"/>
    <xs:element minOccurs="0" name="EditTransition" nillable="true"
      type="tns2:EditTransitionInfo"/>
```

```

<xs:element minOccurs="0" name="Elems" nillable="true" type="tns2:ArrayOfViewElement"/>
<xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
<xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
<xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="ModifiedShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
<xs:element minOccurs="0" name="Notes" nillable="true" type="tns2:Notes"/>
<xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
<xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
<xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

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

DelElems: Reserved. MUST be ignored.

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

EditTransition: An **EditTransitionInfo** complex element (section [2.2.4.28](#)) that specifies the slide transition.

Elems: An **ArrayOfViewElement** complex element (section [2.2.4.12](#)) that specifies the **ViewElement** complex elements (section [2.2.4.45](#)) for slide content on the presentation slide.

HasAnimationOrTransition:

Hidden: A **boolean** ([XMLSCHEMA2](#) section 3.2.2) 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 [2.2.4.32](#)) 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.

2.2.4.27 EditSlideInfoFe

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

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

```

<xs:complexType name="EditSlideInfoFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:sequence>
<xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>

```

```

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

```

HasAnimationOrTransition:

Hidden: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) 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 [2.2.4.45](#)) that specifies the thumbnail of the presentation slide.

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

2.2.4.28 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.

2.2.4.29 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:sequence>
</xs:complexType>

```

```

<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.

2.2.4.30 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.

2.2.4.31 MainMasterFe

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

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

```

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

LineStyles: An **ArrayOfStyleGalleryItem** complex element (section [2.2.4.10](#)) that specifies line styles.

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

ShapeStyles: An **ArrayOfStyleGalleryItem** that specifies shape styles.

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.

2.2.4.32 Notes

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

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

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

Html: An **Html** complex element (section [2.2.4.30](#)) that specifies the content of the notes.

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

2.2.4.33 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.

2.2.4.34 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.

2.2.4.35 PresetSchemeColorMapping

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

The **PresetSchemeColorMapping** complex type [<33>](#) specifies a set of colors in the theme.

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

Accent1: A **ThemeColor** complex element (section [2.2.4.44](#)) 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.

2.2.4.36 Rectangle

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

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

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

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

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

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

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

2.2.4.37 ServiceError

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

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

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

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

Code: Reserved. MUST be ignored.

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

RecommendedActions: Reserved. MUST be ignored.

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

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

2.2.4.38 ServiceResult

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

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

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

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

Error: An optional **ServiceError** complex element (section [2.2.4.37](#)) 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.

2.2.4.39 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.

2.2.4.40 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 [2.2.4.11](#)) that specifies the list of identifiers.

2.2.4.41 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.

2.2.4.42 StyleGalleryItem

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

The **StyleGalleryItem** complex type [<35>](#) specifies a shape style.

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

Icon: A **ViewElement** complex element (section [2.2.4.45](#)) 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.

2.2.4.43 Theme

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

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

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

Accent1: A **ThemeColor** complex element (section [2.2.4.44](#)) 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 [2.2.4.35](#)) that defines a set of colors in the theme.

2.2.4.44 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.

2.2.4.45 ViewElement

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

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

```

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

```

Alt: Reserved. MUST be ignored.

Clip: A **ClippingInfo** complex element (section [2.2.4.14](#)) 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 [2.2.4.33](#)) that specifies the position.

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

2.2.5 Simple Types

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

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

2.2.5.1 char

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

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

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

2.2.5.2 ClientActions

Namespace:

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

Reserved. MUST be ignored.

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

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

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

2.2.5.3 duration

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

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

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

2.2.5.4 ErrorCode

Namespace:

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

Reserved. MUST be ignored.

```
<xs:simpleType name="ErrorCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ErrorRESERVEDSuccess"/>
    <xs:enumeration value="ErrorRESERVEDUnknown"/>
    <xs:enumeration value="ErrorCantOpenDocumentFileType"/>
    <xs:enumeration value="ErrorCantOpenDocumentIRM"/>
    <xs:enumeration value="ErrorCantOpenDocumentPassword"/>
    <xs:enumeration value="ErrorCantOpenDocument"/>
    <xs:enumeration value="ErrorCantInstallFonts"/>
    <xs:enumeration value="ErrorCantConvertModifyPassword"/>
    <xs:enumeration value="ErrorCantComposeSlideParse"/>
    <xs:enumeration value="ErrorCantComposeSlideUnexpected"/>
    <xs:enumeration value="ErrorWacConversionFailure"/>
    <xs:enumeration value="ErrorResourceNotGenerated"/>
    <xs:enumeration value="ErrorGenericSlideCorruption"/>
    <xs:enumeration value="ErrorFileNotFoundException"/>
    <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="ErrorCantSaveDocument"/>
<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="ErrorCantOpenDocumentMacro"/>
<xs:enumeration value="ErrorCantOpenDocumentFinal"/>
<xs:enumeration value="ErrorCantOpenDocumentSigned"/>
<xs:enumeration value="ErrorCantOpenEmbeddedFonts"/>
<xs:enumeration value="ErrorNoAvailableEditAppServer"/>
<xs:enumeration value="ErrorServiceUnavailable"/>
<xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
<xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
<xs:enumeration value="ErrorCantOpenDocumentGatekeeperFailure"/>
<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="ErrorLocalChangeLost"/>
<xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
<xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
<xs:enumeration value="ErrorInProgress"/>
<xs:enumeration value="ErrorImageTooLarge"/>
<xs:enumeration value="ErrorImageWrongFormat"/>
<xs:enumeration value="ErrorImageNoAccess"/>
<xs:enumeration value="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. |
| ErrorCantOpenDocumentFileType | Reserved. MUST be ignored. |
| ErrorCantOpenDocumentIRM | Reserved. MUST be ignored. |

| Value | Meaning |
|---------------------------------|----------------------------|
| ErrorCantOpenDocumentPassword | Reserved. MUST be ignored. |
| ErrorCantOpenDocument | Reserved. MUST be ignored. |
| ErrorCantInstallFonts | Reserved. MUST be ignored. |
| ErrorCantConvertModifyPassword | Reserved. MUST be ignored. |
| ErrorCantComposeSlideParse | Reserved. MUST be ignored. |
| ErrorCantComposeSlideUnexpected | Reserved. MUST be ignored. |
| ErrorWacConversionFailure | Reserved. MUST be ignored. |
| ErrorResourceNotGenerated | Reserved. MUST be ignored. |
| ErrorGenericSlideCorruption | Reserved. MUST be ignored. |
| ErrorFileNotFoundException | Reserved. MUST be ignored. |
| ErrorGeneralUnknown | Reserved. MUST be ignored. |
| ErrorFailedToOpenDocument | Reserved. MUST be ignored. |
| ErrorFailedToRetrieveResource | Reserved. MUST be ignored. |
| ErrorFailedToRenderDocument | Reserved. MUST be ignored. |
| ErrorFailedToRenderSlide | Reserved. MUST be ignored. |
| ErrorFailedToSaveDocument | Reserved. MUST be ignored. |
| ErrorCantSaveDocument | 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. |
| ErrorCantOpenDocumentMacro | Reserved. MUST be ignored. |

| Value | Meaning |
|--|----------------------------|
| ErrorCantOpenDocumentFinal | Reserved. MUST be ignored. |
| ErrorCantOpenDocumentSigned | Reserved. MUST be ignored. |
| ErrorCantOpenEmbeddedFonts | Reserved. MUST be ignored. |
| ErrorNoAvailableEditAppServer | Reserved. MUST be ignored. |
| ErrorServiceUnavailable | Reserved. MUST be ignored. |
| ErrorPptEditExistingExclusiveLock | Reserved. MUST be ignored. |
| ErrorPptEditCheckedOutByAnother | Reserved. MUST be ignored. |
| ErrorCantOpenDocumentGatekeeperFailure | Reserved. MUST be ignored. |
| ErrorEditWorkerTimeout | Reserved. MUST be ignored. |
| ErrorEditSlideCorruption | Reserved. MUST be ignored. |
| ErrorServiceBusy | Reserved. MUST be ignored. |
| ErrorClipartCannotConnect | Reserved. MUST be ignored. |
| ErrorClipartCannotDownload | Reserved. MUST be ignored. |
| ErrorMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorUnsupportedMediaFormat | Reserved. MUST be ignored. |
| ErrorLinkedMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorUnsupportedLinkTarget | Reserved. MUST be ignored. |
| ErrorEmbeddedMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorEmbeddedMediaExceedsMaxSize | Reserved. MUST be ignored. |
| ErrorTranscodingNotEnabled | Reserved. MUST be ignored. |
| ErrorMediaUnavailable | Reserved. MUST be ignored. |
| ErrorCannotOpenODPDocumentPassword | Reserved. MUST be ignored. |
| ErrorLocalChangeLost | 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. |
| ErrorRESERVEDLastError | Reserved. MUST be ignored. |

2.2.5.5 guid

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

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

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

2.2.5.6 ServiceErrorType

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

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

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

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

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

3.1 Server Details

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

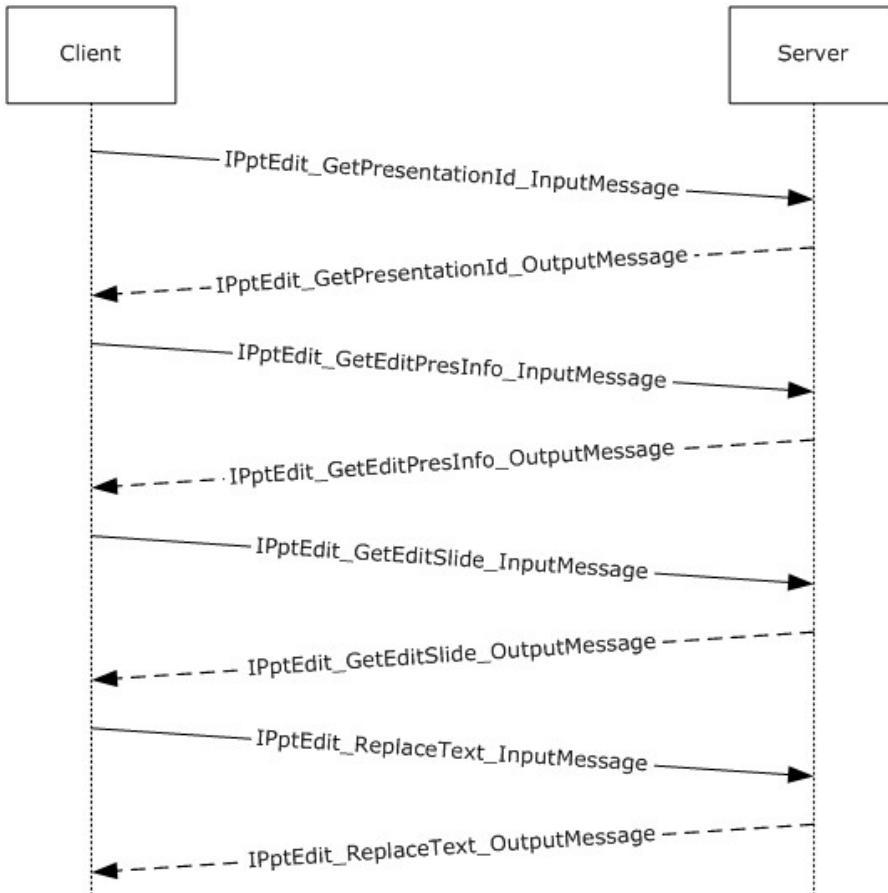


Figure 2: Sample communication between protocol client and protocol server

The protocol client sends the **IPptEdit_GetPresentationId_InputMessage** **SOAP message** as specified in section [3.1.4.25](#) to obtain a valid identifier for a presentation within an **IPptEdit_GetPresentationId_OutputMessage**.

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

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

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

3.1.1 Abstract Data Model

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

3.1.2 Timers

None.

3.1.3 Initialization

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

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

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

3.1.4 Message Processing Events and Sequencing Rules

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

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

| Operation | Description |
|-------------------------------|--|
| AddComment | The AddComment operation SHOULD 39 be used to insert a comment into a presentation. |
| ApplyShapeFill | The ApplyShapeFill operation SHOULD 40 be used to modify the color of a shape in a presentation. |
| ApplyShapeOutlineColor | The ApplyShapeOutlineColor operation SHOULD 41 be used to modify the color of the outline of a shape in a presentation. |

| Operation | Description |
|--|---|
| ApplyShapeOutlineDashStyle | The ApplyShapeOutlineDashStyle operation SHOULD 42 be used to modify the dash type of the outline of a shape. |
| ApplyShapeOutlineEndStyle | The ApplyShapeOutlineEndStyle operation SHOULD 43 be used to modify the end style of a line in a presentation. |
| ApplyShapeOutlineWidth | The ApplyShapeOutlineWidth operation SHOULD 44 be used to modify the width of the outline of a shape. |
| ApplyShapeStyle | The ApplyShapeStyle operation SHOULD 45 be used to apply a style to a shape in a presentation. |
| ApplyTheme | The ApplyTheme operation SHOULD 46 be used to change the theme applied to a presentation. |
| ArrangeShape | The ArrangeShape operation SHOULD 47 be used to rearrange a shape in a presentation. |
| ChangePictureStyle | The ChangePictureStyle operation is used to change the style applied to a picture. |
| ChangeSmartArtColor | The ChangeSmartArtColor operation is used to change the color transform applied to a SmartArt diagram. |
| ChangeSmartArtLayout | The ChangeSmartArtLayout operation is used to change the layout applied to a SmartArt diagram. |
| ChangeSmartArtStyle | The ChangeSmartArtStyle operation is used to change the style applied to a SmartArt diagram. |
| ClearPlaceholder | The ClearPlaceholder is used to delete a shape in a presentation. |
| DeleteComment | The DeleteComment operation SHOULD 48 be used to delete a comment from a presentation. |
| DeleteSlide | The DeleteSlide operation is used to delete a presentation slide from a presentation. |
| DuplicateShape | The DuplicateShape operation SHOULD 49 be used to duplicate a shape in a presentation. |
| DuplicateSlide | The DuplicateSlide operation is used to duplicate a presentation slide. |
| EditComment | The EditComment operation SHOULD 50 be used to change the contents of a comment in a presentation |
| FlipShape | The FlipShape operation SHOULD 51 be used to flip a shape vertically or horizontally in a presentation. |
| GetCoauthUpdates | The GetCoauthUpdates operation SHOULD 52 be used to retrieve co-authoring state for a presentation. |
| GetEditPresInfo | The GetEditPresInfo operation is used to retrieve information about a presentation. |
| GetEditPresInfoGetEditSlideById | The GetEditPresInfoGetEditSlideById operation SHOULD 53 be used to retrieve information about a presentation. |

| Operation | Description |
|---------------------------|---|
| GetEditSlide | The GetEditSlide operation is used to retrieve information about a presentation slide. |
| GetPresentationId | The GetPresentationId operation is used to retrieve an identifier for a presentation. |
| InsertClipart | The InsertClipart operation SHOULD <u><54></u> be used to insert a picture into a presentation. |
| InsertShape | The InsertShape operation SHOULD <u><55></u> be used to insert a shape in a presentation. |
| InsertSlide | The InsertSlide operation is used to insert a presentation slide into a presentation. |
| InsertSmartArt | The InsertSmartArt operation is used to insert a SmartArt diagram into a presentation |
| MoveComment | The MoveComment operation SHOULD <u><56></u> be used to change the position of a comment in a presentation. |
| MoveShape | The MoveShape operation SHOULD <u><57></u> be used to move a shape in a presentation. |
| MoveSlide | The MoveSlide operation is used to move a presentation slide in a presentation. |
| Print | A Print operation SHOULD <u><58></u> be used to print a presentation. |
| Redo | The Redo operation is used to redo the last operation in a presentation that is undone. |
| RemoveShapeFill | The RemoveShapeFill operation SHOULD <u><59></u> be used to remove the color of a shape in a presentation. |
| RemoveShapeOutline | The RemoveShapeOutline operation SHOULD <u><60></u> be used to remove the outline of a shape in a presentation. |
| ReorderAnimation | The ReorderAnimation operation SHOULD <u><61></u> be used to reorder the animation of a shape in a presentation. |
| ReplaceNotes | The ReplaceNotes operation is used to replace presentation notes in a presentation. |
| ReplaceText | The ReplaceText operation is used to replace text in a shape in a presentation. |
| ResetPicture | The ResetPicture operation SHOULD <u><62></u> be used to remove all customizations on a picture in a presentation. |
| ResetSmartArt | The ResetSmartArt operation is used to remove all customizations on a SmartArt diagram in a presentation. |
| ResizeShape | The ResizeShape operation SHOULD <u><63></u> be used to resize a shape in a presentation. |
| ReverseSmartArt | The ReverseSmartArt operation is used to reverse the direction of a SmartArt diagram in a presentation. |

| Operation | Description |
|------------------------------|--|
| RotateShape | The RotateShape operation SHOULD 64 be used to rotate a shape in a presentation. |
| SaveAndClose | The SaveAndClose operation is used to save the contents of a presentation and unlock it. |
| SetAnimation | The SetAnimation operation SHOULD 65 be used to apply an animation to a shape in a presentation. |
| SetTransition | The SetTransition operation SHOULD 66 be used to apply a transition to a slide in a presentation. |
| SetTransitionApplyAll | The SetTransitionApplyAll operation SHOULD 67 be used to copy a transition from one slide and apply it to all other slides in a presentation. |
| SetWordArt | Reserved. MUST not be called. |
| ShapeFormatPainting | The ShapeFormatPainting operation SHOULD 68 be used to copy formatting from one shape and apply it to another shape in the presentation. |
| ShowHideSlide | The ShowHideSlide operation is used to show or hide a presentation slide. |
| Undo | The Undo operation is used to undo the last operation in a presentation that is not undone. |
| UngroupShape | The UngroupShape operation SHOULD 69 be used to ungroup a shape in a presentation. |
| UpdateCanary | Reserved. MUST be ignored. |

3.1.4.1 AddComment

The **AddComment** operation SHOULD [70](#) be used to insert a comment into a presentation.

```

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

The protocol client sends an **IPptEdit_AddComment_InputMessage** request message, and the protocol server responds with an **IPptEdit_AddComment_OutputMessage** response message

3.1.4.1.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_AddComment_InputMessage | The request WSDL message for the AddComment WSDL operation. |
| IPptEdit_AddComment_OutputMessage | The response WSDL message for the AddComment WSDL operation. |

3.1.4.1.1.1 IPptEdit_AddComment_InputMessage

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|---------------------------|---|
| AddComment | The input data for the AddComment WSDL operation. |
| AddCommentResponse | The result data for the AddComment WSDL operation. |

3.1.4.1.2.1 AddComment

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

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

```
</xs:element>
```

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation, as specified in section [3.1.4.25](#).

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

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

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

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

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

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

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

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

3.1.4.1.2.2 AddCommentResponse

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

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

AddCommentResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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.

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

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

3.1.4.2.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ApplyShapeFill_InputMessage | The request WSDL message for the ApplyShapeFill WSDL operation. |
| IPptEdit_ApplyShapeFill_OutputMessage | The response WSDL message for the ApplyShapeFill WSDL operation. |

3.1.4.2.1.1 IPptEdit_ApplyShapeFill_InputMessage

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

The SOAP action value is:

<http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|-------------------------------|---|
| ApplyShapeFill | The input data for the ApplyShapeFill WSDL operation. |
| ApplyShapeFillResponse | The result data for the ApplyShapeFill WSDL operation. |

3.1.4.2.2.1 ApplyShapeFill

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

```
<xs:element name="ApplyShapeFill" xmlns:xss="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 [3.1.4.25](#).

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

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

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

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

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

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

3.1.4.2.2.2 ApplyShapeFillResponse

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

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

ApplyShapeFillResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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.

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

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

3.1.4.3.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ApplyShapeOutlineColor_InputMessage | The request WSDL message for the ApplyShapeOutlineColor WSDL operation. |
| IPptEdit_ApplyShapeOutlineColor_OutputMessage | The response WSDL message for the ApplyShapeOutlineColor WSDL operation. |

3.1.4.3.1.1 IPptEdit_ApplyShapeOutlineColor_InputMessage

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

The SOAP action value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|---------------------------------------|---|
| ApplyShapeOutlineColor | The input data for the ApplyShapeOutlineColor WSDL operation. |
| ApplyShapeOutlineColorResponse | The result data for the ApplyShapeOutlineColor WSDL operation. |

3.1.4.3.2.1 ApplyShapeOutlineColor

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

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

```

<xs:sequence>
    <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
    <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the shape that is being modified, as specified in section [3.1.4.25](#).

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

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

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

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

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

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

3.1.4.3.2.2 ApplyShapeOutlineColorResponse

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

```

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

```

ApplyShapeOutlineColorResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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.

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

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

3.1.4.4.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ApplyShapeOutlineDashStyle_InputMessage | The request WSDL message for the ApplyShapeOutlineDashStyle WSDL operation. |
| IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage | The response WSDL message for the ApplyShapeOutlineDashStyle WSDL operation. |

3.1.4.4.1.1 IPptEdit_ApplyShapeOutlineDashStyle_InputMessage

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

The SOAP action value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|---|---|
| ApplyShapeOutlineDashStyle | The input data for the ApplyShapeOutlineDashStyle WSDL operation. |
| ApplyShapeOutlineDashStyleResponse | The result data for the ApplyShapeOutlineDashStyle WSDL operation. |

3.1.4.4.2.1 ApplyShapeOutlineDashStyle

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the shape that is being modified, as specified in section [3.1.4.25](#).

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

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

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

| Value | Meaning |
|-------|--------------------|
| 0x00 | Solid. |
| 0x01 | Round dot. |
| 0x02 | Square dot. |
| 0x03 | Dash. |
| 0x04 | Dash dot. |
| 0x05 | Long dash. |
| 0x06 | Long dash dot. |
| 0x07 | Long dash dot dot. |

3.1.4.4.2.2 ApplyShapeOutlineDashStyleResponse

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

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

ApplyShapeOutlineDashStyleResult: A [ServiceResult](#) that specifies the result of the operation.
The **Result** child element MUST be an [EditCommandResponse](#).

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.

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

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

3.1.4.5.1 Messages

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

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

3.1.4.5.1.1 IPptEdit_ApplyShapeOutlineEndStyle_InputMessage

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

The SOAP action value is:

`http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|--|--|
| ApplyShapeOutlineEndStyle | The input data for the ApplyShapeOutlineEndStyle WSDL operation. |
| ApplyShapeOutlineEndStyleResponse | The result data for the ApplyShapeOutlineEndStyle WSDL operation. |

3.1.4.5.2.1 ApplyShapeOutlineEndStyle

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the line that is being modified, as specified in section [3.1.4.25](#).

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

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

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

| Value | Meaning |
|-------|-----------|
| 0x00 | None. |
| 0x01 | Triangle. |
| 0x02 | Arrow. |

| Value | Meaning |
|--------------|----------------|
| 0x03 | Stealth. |
| 0x04 | Diamond. |
| 0x05 | Oval. |

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

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

3.1.4.5.2.2 ApplyShapeOutlineEndStyleResponse

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

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

ApplyShapeOutlineEndStyleResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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.

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

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

3.1.4.6.1 Messages

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

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

3.1.4.6.1.1 IPptEdit_ApplyShapeOutlineWidth_InputMessage

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

The SOAP action value is:

`http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|---------------------------------------|---|
| ApplyShapeOutlineWidth | The input data for the ApplyShapeOutlineWidth WSDL operation. |
| ApplyShapeOutlineWidthResponse | The result data for the ApplyShapeOutlineWidth WSDL operation. |

3.1.4.6.2.1 ApplyShapeOutlineWidth

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the shape that is being modified, as specified in section [3.1.4.25](#).

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

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

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

3.1.4.6.2.2 ApplyShapeOutlineWidthResponse

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

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

```

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

```

ApplyShapeOutlineWidthResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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.

```

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

```

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

3.1.4.7.1 Messages

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

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

3.1.4.7.1.1 IPptEdit_ApplyShapeStyle_InputMessage

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

The SOAP action value is:

`http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|--------------------------------|--|
| ApplyShapeStyle | The input data for the ApplyShapeStyle WSDL operation. |
| ApplyShapeStyleResponse | The result data for the ApplyShapeStyle WSDL operation. |

3.1.4.7.2.1 ApplyShapeStyle

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

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

```
</xs:element>
```

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the shape that is being modified, as specified in section [3.1.4.25](#).

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

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

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

3.1.4.7.2.2 ApplyShapeStyleResponse

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

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

ApplyShapeStyleResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#) 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.

```

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

```

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

3.1.4.8.1 Messages

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

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

3.1.4.8.1.1 IPptEdit_ApplyTheme_InputMessage

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

The SOAP action value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|---------------------------|---|
| ApplyTheme | The input data for the ApplyTheme WSDL operation. |
| ApplyThemeResponse | The result data for the ApplyTheme WSDL operation. |

3.1.4.8.2.1 ApplyTheme

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation, as specified in section [3.1.4.25](#).

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

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

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

3.1.4.8.2.2 ApplyThemeResponse

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

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

ApplyThemeResult: A **ServiceResult** (section [2.2.4.38](#)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.20](#)).

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.

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

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

3.1.4.9.1 Messages

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

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

3.1.4.9.1.1 IPptEdit_ArrangeShape_InputMessage

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

The SOAP action value is:

`http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/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 |
|-----------------------------|---|
| ArrangeShape | The input data for the ArrangeShape WSDL operation. |
| ArrangeShapeResponse | The result data for the ArrangeShape WSDL operation. |

3.1.4.9.2.1 ArrangeShape

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation containing the shape that is being modified, as specified in section [3.1.4.25](#).

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

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

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

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

3.1.4.9.2.2 ArrangeShapeResponse

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

```

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

```

ArrangeShapeResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ChangePictureStyle

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

```

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

```

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

3.1.4.10.1 Messages

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

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

3.1.4.10.1.1 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.

3.1.4.10.1.2 IPptEdit_ChangePictureStyle_OutputMessage

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

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

3.1.4.10.2 Elements

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

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

3.1.4.10.2.1 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 [3.1.4.25](#).

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

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

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

3.1.4.10.2.2 ChangePictureStyleResponse

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

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

ChangePictureStyleResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ChangeSmartArtColor

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

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

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

3.1.4.11.1 Messages

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

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

3.1.4.11.1.1 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.

3.1.4.11.1.2 IPptEdit_ChangeSmartArtColor_OutputMessage

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

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

3.1.4.11.2 Elements

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

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

3.1.4.11.2.1 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 [3.1.4.25](#).

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

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

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

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

3.1.4.11.2.2 ChangeSmartArtColorResponse

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

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

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

ChangeSmartArtColorResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ChangeSmartArtLayout

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

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

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

3.1.4.12.1 Messages

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

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

3.1.4.12.1.1 IPptEdit_ChangeSmartArtLayout_InputMessage

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

The SOAP action value is:

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

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

3.1.4.12.1.2 IPptEdit_ChangeSmartArtLayout_OutputMessage

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

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

3.1.4.12.2 Elements

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

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

3.1.4.12.2.1 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 [3.1.4.25](#).

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

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

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

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

3.1.4.12.2 ChangeSmartArtLayoutResponse

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

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

ChangeSmartArtLayoutResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ChangeSmartArtStyle

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

```

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

```

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

3.1.4.13.1 Messages

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

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

3.1.4.13.1.1 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.

3.1.4.13.1.2 IPptEdit_ChangeSmartArtStyle_OutputMessage

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

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

3.1.4.13.2 Elements

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

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

3.1.4.13.2.1 ChangeSmartArtStyle

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

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

presentationId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the presentation where the style of the SmartArt diagram is changed, as specified in section [3.1.4.25](#).

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

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

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

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

3.1.4.13.2.2 ChangeSmartArtStyleResponse

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

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

ChangeSmartArtStyleResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ClearPlaceholder

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

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

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

3.1.4.14.1 Messages

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

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

3.1.4.14.1.1 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.

3.1.4.14.1.2 IPptEdit_ClearPlaceholder_OutputMessage

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

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

3.1.4.14.2 Elements

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

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

3.1.4.14.2.1 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 [3.1.4.25](#).

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

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

3.1.4.14.2.2 ClearPlaceholderResponse

The **ClearPlaceholderResponse** element specifies the result data for the **ClearPlaceholder** WSDL operation.

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

ClearPlaceholderResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 DeleteComment

The **DeleteComment** operation SHOULD [<79>](#) be used to delete a comment from a presentation.

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

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

3.1.4.15.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_DeleteComment_InputMessage | The request WSDL message for the DeleteComment WSDL operation. |
| IPptEdit_DeleteComment_OutputMessage | The response WSDL message for the DeleteComment WSDL operation. |

3.1.4.15.1.1 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.

3.1.4.15.1.2 IPptEdit_DeleteComment_OutputMessage

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

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

3.1.4.15.2 Elements

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

| Element | Description |
|------------------------------|--|
| DeleteComment | The input data for the DeleteComment WSDL operation. |
| DeleteCommentResponse | The result data for the DeleteComment WSDL operation. |

3.1.4.15.2.1 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 [3.1.4.25](#).

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

authorId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the comment within its author's comments.

3.1.4.15.2.2 DeleteCommentResponse

The **DeleteCommentResponse** element specifies the result data for the **DeleteComment** WSDL operation.

```

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

```

DeleteCommentResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 DeleteSlide

The **DeleteSlide** operation is used to delete a presentation slide from a presentation.

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

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

3.1.4.16.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_DeleteSlide_InputMessage | The request WSDL message for the DeleteSlide WSDL operation. |
| IPptEdit_DeleteSlide_OutputMessage | The response WSDL message for the DeleteSlide WSDL operation. |

3.1.4.16.1.1 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/PowerPointEditServerInternal
Service/IPptEdit/DeleteSlide
```

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

3.1.4.16.1.2 IPptEdit_DeleteSlide_OutputMessage

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

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

3.1.4.16.2 Elements

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

| Element | Description |
|----------------------------|--|
| DeleteSlide | The input data for the DeleteSlide WSDL operation. |
| DeleteSlideResponse | The result data for the DeleteSlide WSDL operation. |

3.1.4.16.2.1 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 [3.1.4.25](#).

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

3.1.4.16.2.2 DeleteSlideResponse

The **DeleteSlideResponse** element specifies the result data for the **DeleteSlide** WSDL operation.

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

DeleteSlideResult: A **ServiceResult** that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 DuplicateShape

The **DuplicateShape** operation SHOULD [<80>](#) be used to duplicate a shape in a presentation.

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

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

3.1.4.17.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_DuplicateShape_InputMessage | The request WSDL message for the DuplicateShape WSDL operation. |
| IPptEdit_DuplicateShape_OutputMessage | The response WSDL message for the DuplicateShape WSDL operation. |

3.1.4.17.1.1 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.

3.1.4.17.1.2 IPptEdit_DuplicateShape_OutputMessage

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

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

3.1.4.17.2 Elements

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

| Element | Description |
|-------------------------------|---|
| DuplicateShape | The input data for the DuplicateShape WSDL operation. |
| DuplicateShapeResponse | The result data for the DuplicateShape WSDL operation. |

3.1.4.17.2.1 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 [3.1.4.25](#).

sourceSlideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is copied from.

sourceShapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape that the formatting is copied from. The shape MUST NOT be a group, SmartArt, table, chart, or ActiveX shape.

destinationSlideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is applied to.

cloneShapePosX: An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the x coordinate of the shape that is inserted.

cloneShapePosY: An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the y coordinate of the shape that is inserted.

3.1.4.17.2.2 DuplicateShapeResponse

The **DuplicateShapeResponse** element specifies the result data for the **DuplicateShape** WSDL operation.

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

```

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

```

DuplicateShapeResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 DuplicateSlide

The **DuplicateSlide** operation is used to duplicate a presentation slide.

```

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

```

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

3.1.4.18.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_DuplicateSlide_InputMessage | The request WSDL message for the DuplicateSlide WSDL operation. |
| IPptEdit_DuplicateSlide_OutputMessage | The response WSDL message for the DuplicateSlide WSDL operation. |

3.1.4.18.1.1 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.

3.1.4.18.1.2 IPptEdit_DuplicateSlide_OutputMessage

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

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

3.1.4.18.2 Elements

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

| Element | Description |
|-------------------------------|---|
| DuplicateSlide | The input data for the DuplicateSlide WSDL operation. |
| DuplicateSlideResponse | The result data for the DuplicateSlide WSDL operation. |

3.1.4.18.2.1 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 [3.1.4.25](#).

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

dstId: A **ST_SlideId** ([ISO/IEC29500-1:2011](#) section 19.7.13) that specifies the identifier of the presentation slide that precedes the location of the duplicated slide.

3.1.4.18.2.2 DuplicateSlideResponse

The **DuplicateSlideResponse** element specifies the result data for the **DuplicateSlide** WSDL operation.

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

DuplicateSlideResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 EditComment

The **EditComment** operation SHOULD [<81>](#) be used to change the contents of a comment in a presentation

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

```

ServerInternalService/IPptEdit/EditCommentResponse"
message="tns4:IPptEdit_EditComment_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

3.1.4.19.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_EditComment_InputMessage | The request WSDL message for the EditComment WSDL operation. |
| IPptEdit_EditComment_OutputMessage | The response WSDL message for the EditComment WSDL operation. |

3.1.4.19.1.1 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.

3.1.4.19.1.2 IPptEdit_EditComment_OutputMessage

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

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

3.1.4.19.2 Elements

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

| Element | Description |
|----------------------------|--|
| EditComment | The input data for the EditComment WSDL operation. |
| EditCommentResponse | The result data for the EditComment WSDL operation. |

3.1.4.19.2.1 EditComment

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

```
<xss:element name="EditComment" xmlns:xss="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 [3.1.4.25](#).

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

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

authorId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the comment within its author's comments.

3.1.4.19.2.2 EditCommentResponse

The **EditCommentResponse** element specifies the result data for the **EditComment** WSDL operation.

```

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

```

EditCommentResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 FlipShape

The **FlipShape** operation SHOULD [<82>](#) be used to flip a shape vertically or horizontally in a presentation.

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

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

3.1.4.20.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_FlipShape_InputMessage | The request WSDL message for the FlipShape WSDL operation. |
| IPptEdit_FlipShape_OutputMessage | The response WSDL message for the FlipShape WSDL operation. |

3.1.4.20.1.1 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.

3.1.4.20.1.2 IPptEdit_FlipShape_OutputMessage

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

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

3.1.4.20.2 Elements

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

| Element | Description |
|--------------------------|--|
| FlipShape | The input data for the FlipShape WSDL operation. |
| FlipShapeResponse | The result data for the FlipShape WSDL operation. |

3.1.4.20.2.1 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 [3.1.4.25](#).

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

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

fHorizontal: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the shape will be flipped horizontally.

fVertical: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the shape will be flipped vertically.

3.1.4.20.2.2 FlipShapeResponse

The **FlipShapeResponse** element specifies the result data for the **FlipShape** WSDL operation.

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

```
</xs:element>
```

FlipShapeResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 GetCoauthUpdates

The **GetCoauthUpdates** operation SHOULD[<83>](#) be used to retrieve co-authoring state for a presentation.

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

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

3.1.4.21.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_GetCoauthUpdates_InputMessage | The request WSDL message for the GetCoauthUpdates WSDL operation. |
| IPptEdit_GetCoauthUpdates_OutputMessage | The response WSDL message for the GetCoauthUpdates WSDL operation. |

3.1.4.21.1.1 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.

3.1.4.21.1.2 IPptEdit_GetCoauthUpdates_OutputMessage

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

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

3.1.4.21.2 Elements

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

| Element | Description |
|---------------------------------|---|
| GetCoauthUpdates | The input data for the GetCoauthUpdates WSDL operation. |
| GetCoauthUpdatesResponse | The result data for the GetCoauthUpdates WSDL operation. |

3.1.4.21.2.1 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 [3.1.4.25](#).

lastToken: Reserved. MUST be ignored.

3.1.4.21.2.2 GetCoauthUpdatesResponse

The **GetCoauthUpdatesResponse** element specifies the result data for the **GetCoauthUpdates** WSDL operation.

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

GetCoauthUpdatesResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be a [CoauthUpdate](#).

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 GetEditPresInfo

The **GetEditPresInfo** operation is used to retrieve information about a presentation.

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

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

3.1.4.22.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_GetEditPresInfo_InputMessage | The request WSDL message for the GetEditPresInfo WSDL operation. |
| IPptEdit_GetEditPresInfo_OutputMessage | The response WSDL message for the GetEditPresInfo WSDL operation. |

3.1.4.22.1.1 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.

3.1.4.22.1.2 IPptEdit_GetEditPresInfo_OutputMessage

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

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

3.1.4.22.2 Elements

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

| Element | Description |
|--------------------------------|--|
| GetEditPresInfo | The input data for the GetEditPresInfo WSDL operation. |
| GetEditPresInfoResponse | The result data for the GetEditPresInfo WSDL operation. |

3.1.4.22.2.1 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 [3.1.4.25](#).

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.

3.1.4.22.2.2 GetEditPresInfoResponse

The **GetEditPresInfoResponse** element specifies the result data for the **GetEditPresInfo** WSDL operation.

```

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

```

GetEditPresInfoResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditPresentationInfo](#).

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 GetEditPresInfoGetEditSlideById

The **GetEditPresInfoGetEditSlideById** operation SHOULD [84](#) be used to retrieve information about a presentation.

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

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

3.1.4.23.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage | The request WSDL message for the GetEditPresInfoGetEditSlideById WSDL operation. |
| IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage | The response WSDL message for the GetEditPresInfoGetEditSlideById WSDL operation. |

3.1.4.23.1.1 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.

3.1.4.23.1.2 IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage

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

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

3.1.4.23.2 Elements

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

| Element | Description |
|--|--|
| GetEditPresInfoGetEditSlideById | The input data for the GetEditPresInfoGetEditSlideById WSDL operation. |
| GetEditPresInfoGetEditSlideByIdResponse | The result data for the GetEditPresInfoGetEditSlideById WSDL operation. |

3.1.4.23.2.1 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 [3.1.4.25](#).

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.

3.1.4.23.2.2 GetEditPresInfoGetEditSlideByIdResponse

The **GetEditPresInfoGetEditSlideByIdResponse** element specifies the result data for the **GetEditPresInfoGetEditSlideById** WSDL operation.

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

GetEditPresInfoGetEditSlideByIdResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditPresentationInfo](#).

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 GetEditSlide

The **GetEditSlide** operation is used to retrieve information about a presentation slide.

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

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

3.1.4.24.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_GetEditSlide_InputMessage | The request WSDL message for the GetEditSlide WSDL operation. |
| IPptEdit_GetEditSlide_OutputMessage | The response WSDL message for the GetEditSlide WSDL operation. |

3.1.4.24.1.1 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.

3.1.4.24.1.2 IPptEdit_GetEditSlide_OutputMessage

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

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

3.1.4.24.2 Elements

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

| Element | Description |
|-----------------------------|---|
| GetEditSlide | The input data for the GetEditSlide WSDL operation. |
| GetEditSlideResponse | The result data for the GetEditSlide WSDL operation. |

3.1.4.24.2.1 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 [3.1.4.25](#).

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

3.1.4.24.2.2 GetEditSlideResponse

The **GetEditSlideResponse** element specifies the result data for the **GetEditSlide** WSDL operation.

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

GetEditSlideResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditSlide](#).

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 GetPresentationId

The **GetPresentationId** operation is used to retrieve an identifier for a presentation.

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

```

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

```

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

3.1.4.25.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_GetPresentationId_InputMessage | The request WSDL message for the GetPresentationId WSDL operation. |
| IPptEdit_GetPresentationId_OutputMessage | The response WSDL message for the GetPresentationId WSDL operation. |

3.1.4.25.1.1 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.

3.1.4.25.1.2 IPptEdit_GetPresentationId_OutputMessage

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

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

3.1.4.25.2 Elements

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

| Element | Description |
|----------------------------------|--|
| GetPresentationId | The input data for the GetPresentationId WSDL operation. |
| GetPresentationIdResponse | The result data for the GetPresentationId WSDL operation. |

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

rawDocId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **absolute URL** to the presentation.

3.1.4.25.2.2 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.

3.1.4.25.3 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 InsertClipart

The **InsertClipart** operation SHOULD [85](#) be used to insert a picture into a presentation.

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

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

3.1.4.26.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_InsertClipart_InputMessage | The request WSDL message for the InsertClipart WSDL operation. |
| IPptEdit_InsertClipart_OutputMessage | The response WSDL message for the InsertClipart WSDL operation. |

3.1.4.26.1.1 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.

3.1.4.26.1.2 IPptEdit_InsertClipart_OutputMessage

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

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

3.1.4.26.2 Elements

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

| Element | Description |
|------------------------------|--|
| InsertClipart | The input data for the InsertClipart WSDL operation. |
| InsertClipartResponse | The result data for the InsertClipart WSDL operation. |

3.1.4.26.2.1 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 [3.1.4.25](#).

slideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide into which the picture is inserted.

shapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the placeholder shape into which the picture is inserted.

assetId: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the unique identifier of the picture.

Lcid: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#), of the picture.

alt: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the alternate text for the picture.

3.1.4.26.2.2 InsertClipartResponse

The **InsertClipartResponse** element specifies the result data for the **InsertClipart** WSDL operation.

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

InsertClipartResult: A **ServiceResult** (section [2.2.4.38](#)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.20](#)).

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 InsertShape

The **InsertShape** operation SHOULD [86](#) be used to insert a shape in a presentation.

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

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

3.1.4.27.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_InsertShape_InputMessage | The request WSDL message for the InsertShape WSDL operation. |
| IPptEdit_InsertShape_OutputMessage | The response WSDL message for the InsertShape WSDL operation. |

3.1.4.27.1.1 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.

3.1.4.27.1.2 IPptEdit_InsertShape_OutputMessage

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

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

3.1.4.27.2 Elements

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

| Element | Description |
|----------------------------|--|
| InsertShape | The input data for the InsertShape WSDL operation. |
| InsertShapeResponse | The result data for the InsertShape WSDL operation. |

3.1.4.27.2.1 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 [3.1.4.25](#).

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

shapeType: An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the type of the shape that is inserted.

shapeCtrPosX: An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the x coordinate of the shape that is inserted.

shapeCtrPosY: An **int** ([XMLSCHEMA2](#)) section 3.3.17) that specifies the y coordinate of the shape that is inserted.

shapeWidth: A **double** ([XMLSCHEMA2](#)) section 3.3.5) that specifies the width of the shape that is inserted.

shapeHeight: A **double** ([XMLSCHEMA2](#)) section 3.3.5) that specifies the height of the shape that is inserted.

3.1.4.27.2.2 InsertShapeResponse

The **InsertShapeResponse** element specifies the result data for the **InsertShape** WSDL operation.

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

InsertShapeResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 InsertSlide

The **InsertSlide** operation is used to insert a presentation slide into a presentation.

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

```

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

```

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

3.1.4.28.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_InsertSlide_InputMessage | The request WSDL message for the InsertSlide WSDL operation. |
| IPptEdit_InsertSlide_OutputMessage | The response WSDL message for the InsertSlide WSDL operation. |

3.1.4.28.1.1 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.

3.1.4.28.1.2 IPptEdit_InsertSlide_OutputMessage

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

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

3.1.4.28.2 Elements

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

| Element | Description |
|----------------------------|--|
| InsertSlide | The input data for the InsertSlide WSDL operation. |
| InsertSlideResponse | The result data for the InsertSlide WSDL operation. |

3.1.4.28.2.1 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 [3.1.4.25](#).

dstId: A **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide that precedes the location of the inserted slide. A value of zero indicates that no presentation slide precedes the location. In this case, the location of the inserted presentation slide will be the first slide of the presentation.

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

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

3.1.4.28.2.2 InsertSlideResponse

The **InsertSlideResponse** element specifies the result data for the **InsertSlide** WSDL operation.

```

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

```

InsertSlideResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 InsertSmartArt

The **InsertSmartArt** operation is used to insert a SmartArt diagram into a presentation

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

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

3.1.4.29.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_InsertSmartArt_InputMessage | The request WSDL message for the InsertSmartArt WSDL operation. |
| IPptEdit_InsertSmartArt_OutputMessage | The response WSDL message for the InsertSmartArt WSDL operation. |

3.1.4.29.1.1 IPptEdit_InsertSmartArt_InputMessage

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

The SOAP action value is:

```
http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArt
```

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

3.1.4.29.1.2 IPptEdit_InsertSmartArt_OutputMessage

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

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

3.1.4.29.2 Elements

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

| Element | Description |
|-------------------------------|---|
| InsertSmartArt | The input data for the InsertSmartArt WSDL operation. |
| InsertSmartArtResponse | The result data for the InsertSmartArt WSDL operation. |

3.1.4.29.2.1 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 [3.1.4.25](#).

slideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide into which the SmartArt diagram is inserted.

shapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the placeholder shape into which the SmartArt diagram is inserted.

layoutUri: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the identifier of the layout with which the SmartArt diagram is inserted.

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

3.1.4.29.2.2 InsertSmartArtResponse

The **InsertSmartArtResponse** element specifies the result data for the **InsertSmartArt** WSDL operation.

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

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

InsertSmartArtResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 MoveComment

The **MoveComment** operation SHOULD[<87>](#) be used to change the position of a comment in a presentation.

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

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

3.1.4.30.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_MoveComment_InputMessage | The request WSDL message for the MoveComment |

| Message | Description |
|---|--|
| | WSDL operation. |
| IPptEdit_MoveComment_OutputMessage | The response WSDL message for the MoveComment WSDL operation. |

3.1.4.30.1.1 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.

3.1.4.30.1.2 IPptEdit_MoveComment_OutputMessage

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

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

3.1.4.30.2 Elements

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

| Element | Description |
|----------------------------|--|
| MoveComment | The input data for the MoveComment WSDL operation. |
| MoveCommentResponse | The result data for the MoveComment WSDL operation. |

3.1.4.30.2.1 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 [3.1.4.25](#).

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

authorId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the author of the comment.

index: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the identifier of the comment within its author's comments.

x: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies the new x coordinate of the comment.

y: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies the new y coordinate of the comment.

3.1.4.30.2.2 MoveCommentResponse

The **MoveCommentResponse** element specifies the result data for the **MoveComment** WSDL operation.

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

MoveCommentResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 MoveShape

The **MoveShape** operation SHOULD[<88>](#) be used to move a shape in a presentation.

```
<wsdl:operation name="MoveShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/MoveShape" message="tns4:IPPtEdit_MoveShape_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/MoveShapeResponse"
message="tns4:IPPtEdit_MoveShape_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

3.1.4.31.1 Messages

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

| Message | Description |
|---|--|
| IPPtEdit_MoveShape_InputMessage | The request WSDL message for the MoveShape WSDL operation. |
| IPPtEdit_MoveShape_OutputMessage | The response WSDL message for the MoveShape WSDL operation. |

3.1.4.31.1.1 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.

3.1.4.31.1.2 IPPtEdit_MoveShape_OutputMessage

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

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

3.1.4.31.2 Elements

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

| Element | Description |
|--------------------------|--|
| MoveShape | The input data for the MoveShape WSDL operation. |
| MoveShapeResponse | The result data for the MoveShape WSDL operation. |

3.1.4.31.2.1 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 [3.1.4.25](#).

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

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

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

y: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies the new y coordinate of the shape.

3.1.4.31.2.2 MoveShapeResponse

The **MoveShapeResponse** element specifies the result data for the **MoveShape** WSDL operation.

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

MoveShapeResult: A **ServiceResult** element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 MoveSlide

The **MoveSlide** operation is used to move a presentation slide in a presentation.

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

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

3.1.4.32.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_MoveSlide_InputMessage | The request WSDL message for the MoveSlide WSDL operation. |
| IPptEdit_MoveSlide_OutputMessage | The response WSDL message for the MoveSlide WSDL operation. |

3.1.4.32.1.1 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.

3.1.4.32.1.2 IPptEdit_MoveSlide_OutputMessage

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

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

3.1.4.32.2 Elements

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

| Element | Description |
|--------------------------|--|
| MoveSlide | The input data for the MoveSlide WSDL operation. |
| MoveSlideResponse | The result data for the MoveSlide WSDL operation. |

3.1.4.32.2.1 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 [3.1.4.25](#).

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

dstId: A value of zero or an **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide that precedes the new location of the moved slide. A value of zero indicates that no presentation slide precedes the new location. In this case, the new location of the moved presentation slide is the first slide of the presentation.

3.1.4.32.2.2 MoveSlideResponse

The **MoveSlideResponse** element specifies the result data for the **MoveSlide** WSDL operation.

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

MoveSlideResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 Print

A **Print** operation SHOULD [<89>](#) be used to print a presentation.

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

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

3.1.4.33.1 Messages

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

| Message | Description |
|-------------------------------------|--|
| IPptEdit_Print_InputMessage | The request WSDL message for the Print WSDL operation. |
| IPptEdit_Print_OutputMessage | The response WSDL message for the Print WSDL operation. |

3.1.4.33.1.1 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.

3.1.4.33.1.2 IPptEdit_Print_OutputMessage

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

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

3.1.4.33.2 Elements

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

| Element | Description |
|----------------------|--|
| Print | The input data for the Print WSDL operation. |
| PrintResponse | The result data for the Print WSDL operation. |

3.1.4.33.2.1 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 [3.1.4.25](#).

3.1.4.33.2.2 PrintResponse

The **PrintResponse** element specifies the result data for the **Print** WSDL operation.

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

PrintResult: A **PptViewingService.PrintResult** (section [2.2.4.34](#)) that specifies the result of the operation.

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 Redo

The **Redo** operation is used to redo the last operation in a presentation that is undone.

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

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

3.1.4.34.1 Messages

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

| Message | Description |
|-------------------------------------|---|
| IPptEdit_Redoo_InputMessage | The request WSDL message for the Redo WSDL operation. |
| IPptEdit_Redoo_OutputMessage | The response WSDL message for the Redo WSDL operation. |

3.1.4.34.1.1 IPptEdit_Redoo_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.

3.1.4.34.1.2 IPptEdit_Redoo_OutputMessage

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

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

3.1.4.34.2 Elements

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

| Element | Description |
|---------------------|---|
| Redo | The input data for the Redo WSDL operation. |
| RedoResponse | The result data for the Redo WSDL operation. |

3.1.4.34.2.1 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 [3.1.4.25](#).

3.1.4.34.2.2 RedoResponse

The **RedoResponse** element specifies the result data for the **Redo** WSDL operation.

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

RedoResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 RemoveShapeFill

The **RemoveShapeFill** operation SHOULD [<90>](#) be used to remove the color of a shape in a presentation.

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

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

3.1.4.35.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_RemoveShapeFill_InputMessage | The request WSDL message for the RemoveShapeFill WSDL operation. |

| Message | Description |
|---|--|
| IPptEdit_RemoveShapeFill_OutputMessage | The response WSDL message for the RemoveShapeFill WSDL operation. |

3.1.4.35.1.1 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.

3.1.4.35.1.2 IPptEdit_RemoveShapeFill_OutputMessage

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

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

3.1.4.35.2 Elements

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

| Element | Description |
|--------------------------------|--|
| RemoveShapeFill | The input data for the RemoveShapeFill WSDL operation. |
| RemoveShapeFillResponse | The result data for the RemoveShapeFill WSDL operation. |

3.1.4.35.2.1 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 [3.1.4.25](#).

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

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

3.1.4.35.2.2 RemoveShapeFillResponse

The **RemoveShapeFillResponse** element specifies the result data for the **RemoveShapeFill** WSDL operation.

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

RemoveShapeFillResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 RemoveShapeOutline

The **RemoveShapeOutline** operation SHOULD[<91>](#) be used to remove the outline of a shape in a presentation.

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

```

message="tns4:IPptEdit_RemoveShapeOutline_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

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

3.1.4.36.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_RemoveShapeOutline_InputMessage | The request WSDL message for the RemoveShapeOutline WSDL operation. |
| IPptEdit_RemoveShapeOutline_OutputMessage | The response WSDL message for the RemoveShapeOutline WSDL operation. |

3.1.4.36.1.1 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.

3.1.4.36.1.2 IPptEdit_RemoveShapeOutline_OutputMessage

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

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

3.1.4.36.2 Elements

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

| Element | Description |
|-----------------------------------|---|
| RemoveShapeOutline | The input data for the RemoveShapeOutline WSDL operation. |
| RemoveShapeOutlineResponse | The result data for the RemoveShapeOutline WSDL operation. |

3.1.4.36.2.1 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 [3.1.4.25](#).

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

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

3.1.4.36.2.2 RemoveShapeOutlineResponse

The **RemoveShapeOutlineResponse** element specifies the result data for the **RemoveShapeOutline** WSDL operation.

```

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

```

RemoveShapeOutlineResult: A [ServiceResult](#) element that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ReorderAnimation

The **ReorderAnimation** operation SHOULD [92](#) be used to reorder the animation of a shape in a presentation.

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

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

3.1.4.37.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ReorderAnimation_InputMessage | The request WSDL message for the ReorderAnimation WSDL operation. |
| IPptEdit_ReorderAnimation_OutputMessage | The response WSDL message for the ReorderAnimation WSDL operation. |

3.1.4.37.1.1 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.

3.1.4.37.1.2 IPptEdit_ReorderAnimation_OutputMessage

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

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

3.1.4.37.2 Elements

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

| Element | Description |
|---------------------------------|---|
| ReorderAnimation | The input data for the ReorderAnimation WSDL operation. |
| ReorderAnimationResponse | The result data for the ReorderAnimation WSDL operation. |

3.1.4.37.2.1 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 [3.1.4.25](#).

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

shapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape. The shape MUST have exactly one effect and that effect MUST exist on the main timeline.

fLater: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether to move the effect earlier or later in the timeline. If this value is true, the effect MUST NOT have the largest build identifier. If this value is false, the effect MUST NOT have the smallest build identifier.

3.1.4.37.2.2 ReorderAnimationResponse

The **ReorderAnimationResponse** element specifies the result data for the **ReorderAnimation** WSDL operation.

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

ReorderAnimationResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ReplaceNotes

The **ReplaceNotes** operation is used to replace presentation notes in a presentation.

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

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

3.1.4.38.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ReplaceNotes_InputMessage | The request WSDL message for the ReplaceNotes WSDL operation. |
| IPptEdit_ReplaceNotes_OutputMessage | The response WSDL message for the ReplaceNotes WSDL operation. |

3.1.4.38.1.1 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.

3.1.4.38.1.2 IPptEdit_ReplaceNotes_OutputMessage

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

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

3.1.4.38.2 Elements

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

| Element | Description |
|-----------------------------|---|
| ReplaceNotes | The input data for the ReplaceNotes WSDL operation. |
| ReplaceNotesResponse | The result data for the ReplaceNotes WSDL operation. |

3.1.4.38.2.1 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 [3.1.4.25](#).

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

newNotes: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the replacement notes.

3.1.4.38.2.2 ReplaceNotesResponse

The **ReplaceNotesResponse** element specifies the result data for the **ReplaceNotes** WSDL operation.

```

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

```

ReplaceNotesResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ReplaceText

The **ReplaceText** operation is used to replace text in a shape in a presentation.

```

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

```

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

3.1.4.39.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit.ReplaceText_InputMessage | The request WSDL message for the ReplaceText WSDL operation. |
| IPptEdit.ReplaceText_OutputMessage | The response WSDL message for the ReplaceText WSDL operation. |

3.1.4.39.1.1 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.

3.1.4.39.1.2 IPptEdit.ReplaceText_OutputMessage

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

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

3.1.4.39.2 Elements

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

| Element | Description |
|----------------------------|--|
| ReplaceText | The input data for the ReplaceText WSDL operation. |
| ReplaceTextResponse | The result data for the ReplaceText WSDL operation. |

3.1.4.39.2.1 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: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 [3.1.4.25](#).

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

shapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape containing the text that is replaced.

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

3.1.4.39.2.2 ReplaceTextResponse

The **ReplaceTextResponse** element specifies the result data for the **ReplaceText** WSDL operation.

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

ReplaceTextResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ResetPicture

The **ResetPicture** operation SHOULD[93](#) be used to remove all customizations on a picture in a presentation.

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

```

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

```

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

3.1.4.40.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_ResetPicture_InputMessage | The request WSDL message for the ResetPicture WSDL operation. |
| IPptEdit_ResetPicture_OutputMessage | The response WSDL message for the ResetPicture WSDL operation. |

3.1.4.40.1.1 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.

3.1.4.40.1.2 IPptEdit_ResetPicture_OutputMessage

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

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

3.1.4.40.2 Elements

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

| Element | Description |
|-----------------------------|---|
| ResetPicture | The input data for the ResetPicture WSDL operation. |
| ResetPictureResponse | The result data for the ResetPicture WSDL operation. |

3.1.4.40.2.1 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 [3.1.4.25](#).

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

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

3.1.4.40.2.2 ResetPictureResponse

The **ResetPictureResponse** element specifies the result data for the **ResetPicture** WSDL operation.

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

ResetPictureResult: A **ServiceResult** that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ResetSmartArt

The **ResetSmartArt** operation is used to remove all customizations on a SmartArt diagram in a presentation.

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

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

3.1.4.41.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_ResetSmartArt_InputMessage | The request WSDL message for the ResetSmartArt WSDL operation. |
| IPptEdit_ResetSmartArt_OutputMessage | The response WSDL message for the ResetSmartArt WSDL operation. |

3.1.4.41.1.1 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.

3.1.4.41.1.2 IPptEdit_ResetSmartArt_OutputMessage

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

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

3.1.4.41.2 Elements

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

| Element | Description |
|------------------------------|--|
| ResetSmartArt | The input data for the ResetSmartArt WSDL operation. |
| ResetSmartArtResponse | The result data for the ResetSmartArt WSDL operation. |

3.1.4.41.2.1 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 [3.1.4.25](#).

slideId: A **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the SmartArt diagram that is reset.

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

3.1.4.41.2.2 ResetSmartArtResponse

The **ResetSmartArtResponse** element specifies the result data for the **ResetSmartArt** WSDL operation.

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

ResetSmartArtResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ResizeShape

The **ResizeShape** operation SHOULD [<94>](#) be used to resize a shape in a presentation.

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

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

3.1.4.42.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_ResizeShape_InputMessage | The request WSDL message for the ResizeShape WSDL operation. |
| IPptEdit_ResizeShape_OutputMessage | The response WSDL message for the ResizeShape WSDL operation. |

3.1.4.42.1.1 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.

3.1.4.42.1.2 IPptEdit_ResizeShape_OutputMessage

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

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

3.1.4.42.2 Elements

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

| Element | Description |
|----------------------------|--|
| ResizeShape | The input data for the ResizeShape WSDL operation. |
| ResizeShapeResponse | The result data for the ResizeShape WSDL operation. |

3.1.4.42.2.1 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 [3.1.4.25](#).

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

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

deltaNorth: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the y coordinate of the line is offset by this value. Else the north edge of the shape is offset by this value.

deltaSouth: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the x coordinate of the line is offset by this value. Else the south edge of the shape is offset by this value.

deltaWest: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the y coordinate of the line is offset by this value. Else the west edge of the shape is offset by this value.

deltaEast: A **double** ([\[XMLSCHEMA2\]](#) section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the x coordinate of the line is offset by this value. Else the east edge of the shape is offset by this value.

3.1.4.42.2 ResizeShapeResponse

The **ResizeShapeResponse** element specifies the result data for the **ResizeShape** WSDL operation.

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

ResizeShapeResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ReverseSmartArt

The **ReverseSmartArt** operation is used to reverse the direction of a SmartArt diagram in a presentation.

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

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

3.1.4.43.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_ReverseSmartArt_InputMessage | The request WSDL message for the ReverseSmartArt WSDL operation. |
| IPptEdit_ReverseSmartArt_OutputMessage | The response WSDL message for the ReverseSmartArt WSDL operation. |

3.1.4.43.1.1 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/PowerPointEditServerInternal
Service/IPptEdit/ReverseSmartArt
```

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

3.1.4.43.1.2 IPptEdit_ReverseSmartArt_OutputMessage

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

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

3.1.4.43.2 Elements

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

| Element | Description |
|--------------------------------|--|
| ReverseSmartArt | The input data for the ReverseSmartArt WSDL operation. |
| ReverseSmartArtResponse | The result data for the ReverseSmartArt WSDL operation. |

3.1.4.43.2.1 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 [3.1.4.25](#).

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

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

3.1.4.43.2.2 ReverseSmartArtResponse

The **ReverseSmartArtResponse** element specifies the result data for the **ReverseSmartArt** WSDL operation.

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

ReverseSmartArtResult: A **ServiceResult** that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 RotateShape

The **RotateShape** operation SHOULD^{<95>} be used to rotate a shape in a presentation.

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

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

3.1.4.44.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_RotateShape_InputMessage | The request WSDL message for the RotateShape WSDL operation. |
| IPptEdit_RotateShape_OutputMessage | The response WSDL message for the RotateShape WSDL operation. |

3.1.4.44.1.1 IPptEdit_RotateShape_InputMessage

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

The SOAP action value is:

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

3.1.4.44.1.2 IPptEdit_RotateShape_OutputMessage

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

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

3.1.4.44.2 Elements

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

| Element | Description |
|----------------------------|--|
| RotateShape | The input data for the RotateShape WSDL operation. |
| RotateShapeResponse | The result data for the RotateShape WSDL operation. |

3.1.4.44.2.1 RotateShape

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

```
<xss:element name="RotateShape" xmlns:xss="http://www.w3.org/2001/XMLSchema">
  <xss:complexType>
    <xss:sequence>
      <xss:element minOccurs="0" name="presentationId" nullable="true" type="xs:string"/>
      <xss:element minOccurs="0" name="slideId" nullable="true" type="xs:string"/>
      <xss:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xss:element minOccurs="0" name="degrees" type="xs:int"/>
    </xss:sequence>
  </xss:complexType>
</xss: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 [3.1.4.25](#).

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

shapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape that is being modified. The shape MUST NOT be a chart, SmartArt, table, or ActiveX shape.

degrees: An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the number of degrees the shape is rotated from its default orientation.

3.1.4.44.2.2 RotateShapeResponse

The **RotateShapeResponse** element specifies the result data for the **RotateShape** WSDL operation.

```

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

```

RotateShapeResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 SaveAndClose

The **SaveAndClose** operation is used to save the contents of a presentation and unlock it.

```

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

```

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

3.1.4.45.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_SaveAndClose_InputMessage | The request WSDL message for the SaveAndClose WSDL operation. |
| IPptEdit_SaveAndClose_OutputMessage | The response WSDL message for the SaveAndClose WSDL operation. |

3.1.4.45.1.1 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.

3.1.4.45.1.2 IPptEdit_SaveAndClose_OutputMessage

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

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

3.1.4.45.2 Elements

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

| Element | Description |
|-----------------------------|---|
| SaveAndClose | The input data for the SaveAndClose WSDL operation. |
| SaveAndCloseResponse | The result data for the SaveAndClose WSDL operation. |

3.1.4.45.2.1 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 [3.1.4.25](#).

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.

3.1.4.45.2.2 SaveAndCloseResponse

The **SaveAndCloseResponse** element specifies the result data for the **SaveAndClose** WSDL operation.

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

SaveAndCloseResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 SetAnimation

The **SetAnimation** operation SHOULD[<96>](#) be used to apply an animation to a shape in a presentation.

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

```

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

```

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

3.1.4.46.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_SetAnimation_InputMessage | The request WSDL message for the SetAnimation WSDL operation. |
| IPptEdit_SetAnimation_OutputMessage | The response WSDL message for the SetAnimation WSDL operation. |

3.1.4.46.1.1 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.

3.1.4.46.1.2 IPptEdit_SetAnimation_OutputMessage

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

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

3.1.4.46.2 Elements

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

| Element | Description |
|-----------------------------|---|
| SetAnimation | The input data for the SetAnimation WSDL operation. |
| SetAnimationResponse | The result data for the SetAnimation WSDL operation. |

3.1.4.46.2.1 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 [3.1.4.25](#).

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

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

fxId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the animation. The value MUST be a value from the following table.

| Value | Meaning |
|-------|---------|
| 0x0 | None |
| 0x1 | Appear |
| 0x2 | Fly In |
| 0x3 | Fade |

direction: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the direction of the animation. The value MUST be zero if **fxId** is not 2. The value MUST be a value from the following table if **fxId** is 2.

| Value | Meaning |
|-------|---------|
| 0x0 | None |
| 0x1 | Up |
| 0x2 | Right |
| 0x3 | Down |
| 0x4 | Left |

sequenceId: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the sequence type of the animation. The value MUST be a value from the following table.

| Value | Meaning |
|-------|---------------|
| 0x0 | Default |
| 0x1 | As One Object |
| 0x2 | By Paragraph |
| 0x3 | One by One |

3.1.4.46.2.2 SetAnimationResponse

The **SetAnimationResponse** element specifies the result data for the **SetAnimation** WSDL operation.

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

SetAnimationResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 SetTransition

The **SetTransition** operation SHOULD[97](#) be used to apply a transition to a slide in a presentation.

```
<wsdl:operation name="SetTransition" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

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

```

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

3.1.4.47.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_SetTransition_InputMessage | The request WSDL message for the SetTransition WSDL operation. |
| IPptEdit_SetTransition_OutputMessage | The response WSDL message for the SetTransition WSDL operation. |

3.1.4.47.1.1 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.

3.1.4.47.1.2 IPptEdit_SetTransition_OutputMessage

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

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

3.1.4.47.2 Elements

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

| Element | Description |
|------------------------------|--|
| SetTransition | The input data for the SetTransition WSDL operation. |
| SetTransitionResponse | The result data for the SetTransition WSDL operation. |

3.1.4.47.2.1 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 [3.1.4.25](#).

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

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

| Value | Meaning |
|-------|--------------------|
| 0x0 | None |
| 0x6 | Fade through black |
| 0x17 | Fade smoothly |
| 0x14 | Push |

direction: An **unsignedInt** ([\[XMLSCHEMA2\]](#) section 3.3.22) that specifies the direction of transition. If **type** is not 0x14, the value MUST be zero. If **type** is 0x14, the value MUST be a value from the following table.

| Value | Meaning |
|-------|-------------|
| 0x0 | From right |
| 0x1 | From bottom |
| 0x2 | From left |
| 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.

3.1.4.47.2.2 SetTransitionResponse

The **SetTransitionResponse** element specifies the result data for the **SetTransition** WSDL operation.

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

SetTransitionResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 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.

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

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

3.1.4.48.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_SetTransitionApplyAll_InputMessage | The request WSDL message for the SetTransitionApplyAll WSDL operation. |
| IPptEdit_SetTransitionApplyAll_OutputMessage | The response WSDL message for the SetTransitionApplyAll WSDL operation. |

3.1.4.48.1.1 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.

3.1.4.48.1.2 IPptEdit_SetTransitionApplyAll_OutputMessage

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

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

3.1.4.48.2 Elements

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

| Element | Description |
|--------------------------------------|--|
| SetTransitionApplyAll | The input data for the SetTransitionApplyAll WSDL operation. |
| SetTransitionApplyAllResponse | The result data for the SetTransitionApplyAll WSDL operation. |

3.1.4.48.2.1 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 [3.1.4.25](#).

slideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the transition to be copied.

3.1.4.48.2.2 SetTransitionApplyAllResponse

The **SetTransitionApplyAllResponse** element specifies the result data for the **SetTransitionApplyAll** WSDL operation.

```

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

```

SetTransitionApplyAllResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 SetWordArt

Reserved. MUST not be called.

```
<wsdl:operation name="SetWordArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

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

```

Reserved. MUST not be called.

3.1.4.49.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_SetWordArt_InputMessage | The request WSDL message for the SetWordArt WSDL operation. |
| IPptEdit_SetWordArt_OutputMessage | The response WSDL message for the SetWordArt WSDL operation. |

3.1.4.49.1.1 IPptEdit_SetWordArt_InputMessage

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

The SOAP action value is:

<http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArt>

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

3.1.4.49.1.2 IPptEdit_SetWordArt_OutputMessage

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

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

3.1.4.49.2 Elements

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

| Element | Description |
|---------------------------|---|
| SetWordArt | The input data for the SetWordArt WSDL operation. |
| SetWordArtResponse | The result data for the SetWordArt WSDL operation. |

3.1.4.49.2.1 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.

3.1.4.49.2.2 SetWordArtResponse

The **SetWordArtResponse** element specifies the result data for the **SetWordArt** WSDL operation.

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

SetWordArtResult: Reserved. MUST be ignored.

3.1.4.49.3 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 ShapeFormatPainting

The **ShapeFormatPainting** operation SHOULD [99](#) be used to copy formatting from one shape and apply it to another shape in the presentation.

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

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

3.1.4.50.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_ShapeFormatPainting_InputMessage | The request WSDL message for the ShapeFormatPainting WSDL operation. |
| IPptEdit_ShapeFormatPainting_OutputMessage | The response WSDL message for the ShapeFormatPainting WSDL operation. |

3.1.4.50.1.1 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.

3.1.4.50.1.2 IPptEdit_ShapeFormatPainting_OutputMessage

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

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

3.1.4.50.2 Elements

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

| Element | Description |
|------------------------------------|--|
| ShapeFormatPainting | The input data for the ShapeFormatPainting WSDL operation. |
| ShapeFormatPaintingResponse | The result data for the ShapeFormatPainting WSDL operation. |

3.1.4.50.2.1 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 [3.1.4.25](#).

sourceSlideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is copied from.

sourceShapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape that the formatting is copied from. The shape MUST NOT be a group, SmartArt, table, chart, or ActiveX shape.

destinationSlideId: An **ST_SlideId** ([\[ISO/IEC29500-1:2011\]](#) section 19.7.13) that specifies the identifier of the presentation slide containing the shape that the formatting is applied to.

destinationShapeId: An **ST_DrawingElementId** ([\[ISO/IEC29500-1:2011\]](#) section 20.1.10.21) that specifies the identifier of the shape that the formatting is applied to. The shape MUST NOT be a SmartArt, table, chart, or ActiveX shape.

3.1.4.50.2.2 ShapeFormatPaintingResponse

The **ShapeFormatPaintingResponse** element specifies the result data for the **ShapeFormatPainting** WSDL operation.

```

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

```

ShapeFormatPaintingResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 ShowHideSlide

The **ShowHideSlide** operation is used to show or hide a presentation slide.

```

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

```

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

3.1.4.51.1 Messages

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

| Message | Description |
|---|--|
| IPptEdit_ShowHideSlide_InputMessage | The request WSDL message for the ShowHideSlide WSDL operation. |
| IPptEdit_ShowHideSlide_OutputMessage | The response WSDL message for the ShowHideSlide WSDL operation. |

3.1.4.51.1.1 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.

3.1.4.51.1.2 IPptEdit_ShowHideSlide_OutputMessage

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

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

3.1.4.51.2 Elements

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

| Element | Description |
|------------------------------|--|
| ShowHideSlide | The input data for the ShowHideSlide WSDL operation. |
| ShowHideSlideResponse | The result data for the ShowHideSlide WSDL operation. |

3.1.4.51.2.1 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 [3.1.4.25](#).

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

fHidden: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies if the operation is to show or hide the presentation slide. If the value is true, the protocol server MUST make the presentation slide hidden. Otherwise, the protocol server MUST make the presentation slide shown. MUST be present.

3.1.4.51.2.2 ShowHideSlideResponse

The **ShowHideSlideResponse** element specifies the result data for the **ShowHideSlide** WSDL operation.

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

ShowHideSlideResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 Undo

The **Undo** operation is used to undo the last operation in a presentation that is not undone.

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

```

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

```

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

3.1.4.52.1 Messages

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

| Message | Description |
|------------------------------------|---|
| IPptEdit_Undo_InputMessage | The request WSDL message for the Undo WSDL operation. |
| IPptEdit_Undo_OutputMessage | The response WSDL message for the Undo WSDL operation. |

3.1.4.52.1.1 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/PowerPointEditServerInternal
IService/IPptEdit/Undo
```

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

3.1.4.52.1.2 IPptEdit_Undo_OutputMessage

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

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

3.1.4.52.2 Elements

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

| Element | Description |
|---------------------|---|
| Undo | The input data for the Undo WSDL operation. |
| UndoResponse | The result data for the Undo WSDL operation. |

3.1.4.52.2.1 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 [3.1.4.25](#).

3.1.4.52.2.2 UndoResponse

The **UndoResponse** element specifies the result data for the **Undo** WSDL operation.

```

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

```

UndoResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 UngroupShape

The **UngroupShape** operation SHOULD[<100>](#) be used to ungroup a shape in a presentation.

```

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

```

```

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

```

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

3.1.4.53.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_UngroupShape_InputMessage | The request WSDL message for the UngroupShape WSDL operation. |
| IPptEdit_UngroupShape_OutputMessage | The response WSDL message for the UngroupShape WSDL operation. |

3.1.4.53.1.1 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.

3.1.4.53.1.2 IPptEdit_UngroupShape_OutputMessage

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

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

3.1.4.53.2 Elements

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

| Element | Description |
|-----------------------------|---|
| UngroupShape | The input data for the UngroupShape WSDL operation. |
| UngroupShapeResponse | The result data for the UngroupShape WSDL operation. |

3.1.4.53.2.1 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 [3.1.4.25](#).

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

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

3.1.4.53.2.2 UngroupShapeResponse

The **UngroupShapeResponse** element specifies the result data for the **UngroupShape** WSDL operation.

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

UngroupShapeResult: A [ServiceResult](#) that specifies the result of the operation. The **Result** child element MUST be an [EditCommandResponse](#).

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 UpdateCanary

Reserved. MUST be ignored.

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

3.1.4.54.1 Messages

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

| Message | Description |
|--|---|
| IPptEdit_UpdateCanary_InputMessage | The request WSDL message for the UpdateCanary WSDL operation. |
| IPptEdit_UpdateCanary_OutputMessage | The response WSDL message for the UpdateCanary WSDL operation. |

3.1.4.54.1.1 IPptEdit_UpdateCanary_InputMessage

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

The SOAP action value is:

`http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanary`

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

3.1.4.54.1.2 IPptEdit_UpdateCanary_OutputMessage

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

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

3.1.4.54.2 Elements

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

| Element | Description |
|-----------------------------|---|
| UpdateCanary | The input data for the UpdateCanary WSDL operation. |
| UpdateCanaryResponse | The result data for the UpdateCanary WSDL operation. |

3.1.4.54.2.1 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.

3.1.4.54.2.2 UpdateCanaryResponse

The **UpdateCanaryResponse** element specifies the result data for the **UpdateCanary** WSDL operation.

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

UpdateCanaryResult: Reserved. MUST be ignored.

3.1.4.54.3 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.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following example contains a sample interaction between the protocol client and the protocol server.

4.1 Sample Protocol Interaction

In this example, the protocol client sends a request to the protocol server for the identifier of a presentation. The following **IPptEdit_GetPresentationId_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetPresentationId
      xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
      InternalService/">
      <rawDocId>http://protocolserver/Shared
      Documents/MSPWEDPSExample.pptx</rawDocId></GetPresentationId>
    </s:Body>
  </s:Envelope>
```

The protocol server responds with the appropriate identifier for the presentation. The following **IPptEdit_GetPresentationId_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body><GetPresentationIdResponse
    xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
    InternalService/">
    <GetPresentationIdResult>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241f
    m568ced57b5cc4aeda74fff96066a8267m</GetPresentationIdResult></GetPresentationIdResponse>
  </s:Body>
</s:Envelope>
```

The response sent to the protocol client also contains the **canary** which is sent back as a **cookie** with the following name: "X-Key". This canary is sent with any subsequent operations to the protocol server that can modify the presentation.

Next, the protocol client sends a request to the protocol server for information about the presentation. The following **IPptEdit_GetEditPresInfo_InputMessage** message is sent to the protocol server:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body><GetEditPresInfo
    xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
    InternalService/">
    <presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57
    b5cc4aeda74fff96066a8267m</presentationId>
    <firstSlideIndex>0</firstSlideIndex>
    <numSlides>10</numSlides>
    <includedEditSlideIndex>1</includedEditSlideIndex>
  </GetEditPresInfo>
</s:Body>
</s:Envelope>
```

The protocol server responds with the appropriate information about the presentation. The following **IPptEdit_GetEditPresInfo_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetEditPresInfoResponse
      xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
      <GetEditPresInfoResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:Error i:nil="true"/>
        <a:Result i:type="a>EditPresentationInfo">
          <a>EditSlideInfos>
            <a>EditSlideInfoFe>
              <a:Hidden>false</a:Hidden>
              <a:Id>256</a:Id>
              <a:Thumb>
                <a:Alt i:nil="true"/>
                <a:Clip>
                  <a:Bottom>96</a:Bottom>
                  <a:Left>0</a:Left>
                  <a:Right>128</a:Right>
                  <a:Top>0</a:Top>
                </a:Clip>
                <a:Html i:nil="true"/>
              <a:Id>1</a:Id>

              <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
                <a:Position>
                  <a:X>0</a:X>
                  <a:Y>0</a:Y>
                </a:Position>
                <a:Z>0</a:Z>
              </a:Thumb>
              <a>Title>Fancy Title</a>Title>
            </a>EditSlideInfoFe>
          </a>EditSlideInfos>
          <a:FirstSlideIndex>0</a:FirstSlideIndex>
          <a:HasComments>false</a:HasComments>
          <a>MainMasters>
            <a>MainMasterFe>
              <a:ContentMasters>
                <a:ContentMasterFe>
                  <a:Id>2147483649</a:Id>
                  <a:Name>Title Slide</a:Name>
                  <a:SlideLayoutType>title</a:SlideLayoutType>
                </a:ContentMasterFe>
                <a:ContentMasterFe>
                  <a:Id>2147483650</a:Id>
                  <a:Name>Title and Content</a:Name>
                  <a:SlideLayoutType>obj</a:SlideLayoutType>
                </a:ContentMasterFe>
                <a:ContentMasterFe>
                  <a:Id>2147483651</a:Id>
                  <a:Name>Section Header</a:Name>
                  <a:SlideLayoutType>secHead</a:SlideLayoutType>
                </a:ContentMasterFe>
                <a:ContentMasterFe>
```

```

        <a:Id>2147483652</a:Id>
        <a:Name>Two Content</a:Name>
        <a:SlideLayoutType>twoObj</a:SlideLayoutType>
    </a:ContentMasterFe>
    <a:ContentMasterFe>
        <a:Id>2147483653</a:Id>
        <a:Name>Comparison</a:Name>
        <a:SlideLayoutType>twoTxTwoObj</a:SlideLayoutType>
    </a:ContentMasterFe>
    <a:ContentMasterFe>
        <a:Id>2147483654</a:Id>
        <a:Name>Title Only</a:Name>
        <a:SlideLayoutType>titleOnly</a:SlideLayoutType>
    </a:ContentMasterFe>
    <a:ContentMasterFe>
        <a:Id>2147483655</a:Id>
        <a:Name>Blank</a:Name>
        <a:SlideLayoutType>blank</a:SlideLayoutType>
    </a:ContentMasterFe>
    <a:ContentMasterFe>
        <a:Id>2147483656</a:Id>
        <a:Name>Content with Caption</a:Name>
        <a:SlideLayoutType>objTx</a:SlideLayoutType>
    </a:ContentMasterFe>
    <a:ContentMasterFe>
        <a:Id>2147483657</a:Id>
        <a:Name>Picture with Caption</a:Name>
        <a:SlideLayoutType>picTx</a:SlideLayoutType>
    </a:ContentMasterFe>
</a:ContentMasters>
<a:Id>2147483648</a:Id>
<a:InContent>true</a:InContent>
    <a:Name>Office Theme</a:Name>
</a:MainMasterFe>
</a:MainMasters>
<a:Redo>false</a:Redo>
<a:Rtl>false</a:Rtl>
<a:Size>
    <a:X>620</a:X>
    <a:Y>465</a:Y>
</a:Size>
<a:Slide i:nil="true"/>
<a:SlideOrder>
    <a:SlideIds
        xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
            <b:unsignedInt>256</b:unsignedInt>
        </a:SlideIds>
    </a:SlideOrder>
    <a:Undo>false</a:Undo>
</a:Result>
</GetEditPresInfoResult></GetEditPresInfoResponse>
</s:Body>
</s:Envelope>

```

Next, the protocol client sends a request to the protocol server for information about a presentation slide. The identifier of the first slide is 256 that is specified by the first element of the **SlideOrder** element of the [EditPresentationInfo](#) element (section [2.2.4.23](#)). 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></GetEditSlide
ide></s:Body></s:Envelope>

```

The protocol server responds with the appropriate information about the presentation slide. The following **IPptEdit_GetEditSlide_OutputMessage** message is sent to the protocol client:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Body>
<GetEditSlideResponse
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">
<GetEditSlideResult xmlns:a="http://schemas.datacontract.org/2004/07/p"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<a:Error i:nil="true"/>
<a:Result i:type="a>EditSlide">
<a:ContentMasterId>2147483649</a:ContentMasterId>
<a>EditShapes>
<a>EditShape>
<a:Alt i:nil="true"/>
<a>EditBounds>
<a:Bottom>140</a:Bottom>
<a:Left>46</a:Left>
<a:Right>573</a:Right>
<a:Top>41</a:Top>
</a>EditBounds>
<a>EditHtml>&lt;div class=defaultPHStyles style='font-size:32.0px;font-
family:Calibri;color:#7293C9;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara
style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6
face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-
transform:uppercase'&gt;&lt;b&gt;Fancy
Title&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</a>EditHtml>
<a:FontSizeMapping>
<a:Size1>12</a:Size1>
<a:Size2>15</a:Size2>
<a:Size3>19</a:Size3>
<a:Size4>21</a:Size4>
<a:Size5>28</a:Size5>
<a:Size6>44</a:Size6>
<a:Size7>56</a:Size7>
</a:FontSizeMapping>
<a:IsPicture>false</a:IsPicture>
<a:IsPlaceholder>true</a:IsPlaceholder>
<a:IsPrompt>false</a:IsPrompt>
<a: IsNotSmartArt>false</a: IsNotSmartArt>
<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'>&lt;/div&ampgt&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=center>&lt;font size=5 face=Calibri color="#1F497D">Boring subtitle&lt;/font&ampgt&lt;/p&gt;</a>EditHtml>
<a:FontSizeMapping>
<a:Size1>12</a:Size1>
<a:Size2>20</a:Size2>
<a:Size3>24</a:Size3>
<a:Size4>28</a:Size4>
<a:Size5>32</a:Size5>
<a:Size6>37</a:Size6>
<a:Size7>56</a:Size7>
</a:FontSizeMapping>
<a: IsPicture>false</a: IsPicture>
<a: IsPlaceholder>true</a: IsPlaceholder>
<a: IsPrompt>false</a: IsPrompt>
<a: IsSmartArt>false</a: IsSmartArt>
<a: PlaceholderType>3</a: PlaceholderType>
<a: ShapeId>3</a: ShapeId>
<a: ShapeViewElemId>0</a: ShapeViewElemId>
<a: SmartArtInfo i:nil="true"/>
<a: TextViewElemId>4</a: TextViewElemId>
</a>EditShape>
</a>EditShapes>
<a:Hidden>false</a:Hidden>
<a: IsTitleContentMaster>true</a: IsTitleContentMaster>
<a: MainMasterId>2147483648</a: MainMasterId>
<a: Notes>
<a: Html>
<a: Text>&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=left>&lt;font face=Calibri>&lt;img width=1 height=10 style='visibility:hidden'>&lt;/font&ampgt&lt;/p&gt;</a: Text>
</a: Html>
<a: IsPrompt>true</a: IsPrompt>
</a: Notes>
<a: SlideId>256</a: SlideId>
<a: Theme>
<a: Accent1>
<a: b>189</a: b>
<a: g>129</a: g>
<a: r>79</a: r>
</a: Accent1>
<a: Accent2>
<a: b>77</a: b>
<a: g>80</a: g>
<a: r>192</a: r>
</a: Accent2>
<a: Accent3>
<a: b>89</a: b>
<a: g>187</a: g>
<a: r>155</a: r>
</a: Accent3>
<a: Accent4>
<a: b>162</a: b>
<a: g>100</a: g>
<a: r>128</a: r>
</a: Accent4>

```

```

<a:Accent5>
  <a:b>198</a:b>
  <a:g>172</a:g>
  <a:r>75</a:r>
</a:Accent5>
<a:Accent6>
  <a:b>70</a:b>
  <a:g>150</a:g>
  <a:r>247</a:r>
</a:Accent6>
<a:Dark1>
  <a:b>0</a:b>
  <a:g>0</a:g>
  <a:r>0</a:r>
</a:Dark1>
<a:Dark2>
  <a:b>125</a:b>
  <a:g>73</a:g>
  <a:r>31</a:r>
</a:Dark2>
<a:Light1>
  <a:b>255</a:b>
  <a:g>255</a:g>
  <a:r>255</a:r>
</a:Light1>
<a:Light2>
  <a:b>225</a:b>
  <a:g>236</a:g>
  <a:r>238</a:r>
</a:Light2>
</a:Theme>
<a:ThumbnailViewElement>
  <a:Alt i:nil="true"/>
  <a:Clip>
    <a:Bottom>96</a:Bottom>
    <a:Left>0</a:Left>
    <a:Right>128</a:Right>
    <a:Top>0</a:Top>
  </a:Clip>
  <a:Html i:nil="true"/>
  <a:Id>1</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
  <a:Position>
    <a:X>0</a:X>
    <a:Y>0</a:Y>
  </a:Position>
  <a:Z>0</a:Z>
</a:ThumbnailViewElement>
<a:ViewElems>
  <a:ViewElement>
    <a:Alt/>
    <a:Clip>
      <a:Bottom>205</a:Bottom>
      <a:Left>0</a:Left>
      <a:Right>407</a:Right>
      <a:Top>0</a:Top>
    </a:Clip>

```

```

<a:Html i:nil="true"/>
<a:Id>2</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
<a:Position>
<a:X>149</a:X>
<a:Y>8</a:Y>
</a:Position>
<a:Z>1</a:Z>
</a:ViewElement>
<a:ViewElement>
<a:Alt i:nil="true"/>
<a:Clip>
<a:Bottom>74</a:Bottom>
<a:Left>407</a:Left>
<a:Right>547</a:Right>
<a:Top>0</a:Top>
</a:Clip>
<a:Html i:nil="true"/>
<a:Id>3</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
<a:Position>
<a:X>245</a:X>
<a:Y>66</a:Y>
</a:Position>
<a:Z>2</a:Z>
</a:ViewElement>
<a:ViewElement>
<a:Alt i:nil="true"/>
<a:Clip>
<a:Bottom>24</a:Bottom>
<a:Left>547</a:Left>
<a:Right>708</a:Right>
<a:Top>0</a:Top>
</a:Clip>
<a:Html i:nil="true"/>
<a:Id>4</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
<a:Position>
<a:X>163</a:X>
<a:Y>232</a:Y>
</a:Position>
<a:Z>5</a:Z>
</a:ViewElement>
<a:ViewElement>
<a:Alt i:nil="true"/>
<a:Clip i:nil="true"/>
<a:Html>&lt;div
style="position:absolute;top:0px;left:0px;width:620px;height:465px;background-
color:#FFFFFF"/&gt;</a:Html>
<a:Id>0</a:Id>
<a:ImgId i:nil="true"/>
<a:Position>
<a:X>0</a:X>
<a:Y>0</a:Y>

```

```

        </a:Position>
        <a:Z>0</a:Z>
    </a:ViewElement>
</a:ViewElems>
</a:Result>
</GetEditSlideResult>
</GetEditSlideResponse>
</s:Body>
</s:Envelope>

```

Next, the protocol client sends a request to the protocol server to modify the text of a shape on the presentation slide that was referenced in the previous step. The identifier of the shape, 2, is specified by the **ShapeId** element of the first element in the **EditShapes** element of the **EditSlide** element (section [2.4.25](#)). The following **IPptEdit_ReplaceText_InputMessage** message is sent to the protocol server:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
<s:Body>
<ReplaceText
xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

<presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57
b5cc4aeda74fff96066a8267m</presentationId>
<slideId>256</slideId>
<shapeId>2</shapeId>
<newText>&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-
US' align=center&gt;&lt;font size=6 face=Calibri color="#7293C9"&gt;&lt;span style='font-
variant:normal;text-transform:uppercase'&gt;&lt;b&gt;Fancy Title with
3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;&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:Elems>
<a:ViewElement>
<a:Alt/>

```

```

<a:Clip>
  <a:Bottom>205</a:Bottom>
  <a:Left>0</a:Left>
  <a:Right>407</a:Right>
  <a:Top>0</a:Top>
</a:Clip>
<a:Html i:nil="true"/>
<a:Id>2</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
  <a:Position>
    <a:X>149</a:X>
    <a:Y>8</a:Y>
  </a:Position>
  <a:Z>1</a:Z>
</a:ViewElement>
<a:ViewElement>
  <a:Alt i:nil="true"/>
  <a:Clip>
    <a:Bottom>102</a:Bottom>
    <a:Left>407</a:Left>
    <a:Right>659</a:Right>
    <a:Top>0</a:Top>
  </a:Clip>
  <a:Html i:nil="true"/>
  <a:Id>3</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
  <a:Position>
    <a:X>199</a:X>
    <a:Y>55</a:Y>
  </a:Position>
  <a:Z>2</a:Z>
</a:ViewElement>
</a:Elems>
<a:Hidden>false</a:Hidden>
<a:Id>256</a:Id>
<a:ModifiedShapes>
  <a>EditShape>
    <a:Alt i:nil="true"/>
    <a>EditBounds>
      <a:Bottom>140</a:Bottom>
      <a:Left>46</a:Left>
      <a:Right>573</a:Right>
      <a:Top>41</a:Top>
    </a>EditBounds>
    <a>EditHtml>&lt;div class=defaultPHStyles style='font-size:32.0px;font-
family:Calibri;color:#7293C9;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara
style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6
face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-
transform:uppercase'&gt;&lt;b&gt;Fancy Title with
3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;&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:ISmartArt>false</a:ISmartArt>
    <a:PlaceholderType>2</a:PlaceholderType>
    <a:ShapeId>2</a:ShapeId>
    <a:ShapeViewElemId>2</a:ShapeViewElemId>
    <a:SmartArtInfo i:nil="true"/>
    <a:TextViewElemId>3</a:TextViewElemId>
</a>EditShape>
</a:ModifiedShapes>
<a:Notes i:nil="true"/>
<a:Refresh>false</a:Refresh>
<a:Thumb>
    <a:Alt i:nil="true"/>
    <a:Clip>
        <a:Bottom>96</a:Bottom>
        <a:Left>659</a:Left>
        <a:Right>787</a:Right>
        <a:Top>0</a:Top>
    </a:Clip>
    <a:Html i:nil="true"/>
    <a:Id>5</a:Id>

<a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a
9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
    <a:Position>
        <a:X>0</a:X>
        <a:Y>0</a:Y>
    </a:Position>
    <a:Z>0</a:Z>
</a:Thumb>
<a>Title>Fancy Title with 3d.</a>Title>
</a>EditSlideChanges>
</a:ModifiedSlides>
<a:Redo>false</a:Redo>
<a:SlideOrder i:nil="true"/>
<a:Undo>true</a:Undo>
</a:PresChanges>
</a:Result>
</ReplaceTextResult>
</ReplaceTextResponse>
</s:Body>
</s:Envelope>

```

Finally, the protocol client sends a request to the protocol server to save the changes made to the presentation and end the session. The following **IPptEdit_SaveAndClose_InputMessage** message is sent to the protocol server:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Body>
        <SaveAndClose
            xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer
InternalService/">

```

```
<presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fmcf8e360c  
9a82447c9a2ce13a5987d49cm</presentationId>  
    <fReleaseLock>true</fReleaseLock>  
    <fWaitForSave>true</fWaitForSave>  
  </SaveAndClose>  
  </s:Body>  
</s:Envelope>
```

The protocol server responds with the result of the operation. The following **IPptEdit_SaveAndClose_OutputMessage** message is sent to the protocol client:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">  
  <s:Body>  
    <SaveAndCloseResponse  
      xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServer  
      InternalService/">  
      <SaveAndCloseResult xmlns:a="http://schemas.datacontract.org/2004/07/p"  
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
        <a:Error i:nil="true"/>  
        <a:Result i:type="a>EditCommandResponse">  
          <a:PresChanges i:nil="true"/>  
        </a:Result>  
        </SaveAndCloseResult>  
      </SaveAndCloseResponse>  
    </s:Body>  
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

The **Html** child element of [ViewElement](#), the **Html** child element of [Notes](#), and the **EditHtml** child element of [EditShape](#) 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](#) 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"?>
<wsdl:definitions
  xmlns:tns4="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" xmlns:wsaws="http://www.w3.org/2006/05/addressing/wsdl"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xss:schema
      xmlns:tns5="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports"
      targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports">
      <xss:import
        namespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" />
      <xss:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xss:import
        namespace="http://schemas.datacontract.org/2004/07/p"/>
      <xss:import
        namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared"/>
      <xss:import
        namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"/>
      <xss:import
        namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
    </xss:schema>
  </wsdl:types>
  <wsdl:message name="IPptEdit_GetPresentationId_InputMessage">
    <wsdl:part name="parameters" element="tns4:GetPresentationId"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetPresentationId_OutputMessage">
    <wsdl:part name="parameters" element="tns4:GetPresentationIdResponse"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetCoauthUpdates_InputMessage">
    <wsdl:part name="parameters" element="tns4:GetCoauthUpdates"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetCoauthUpdates_OutputMessage">
    <wsdl:part name="parameters" element="tns4:GetCoauthUpdatesResponse"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditPresInfo_InputMessage">
    <wsdl:part name="parameters" element="tns4:GetEditPresInfo"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditPresInfo_OutputMessage">
    <wsdl:part name="parameters" element="tns4:GetEditPresInfoResponse"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage">
    <wsdl:part name="parameters" element="tns4:GetEditPresInfoGetEditSlideById"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage">
    <wsdl:part name="parameters" element="tns4:GetEditPresInfoGetEditSlideByIdResponse"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditSlide_InputMessage">
    <wsdl:part name="parameters" element="tns4:GetEditSlide"/>
  </wsdl:message>
  <wsdl:message name="IPptEdit_GetEditSlide_OutputMessage">
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<wsdl:part name="parameters" element="tns4:GetEditSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveSlide_InputMessage">
    <wsdl:part name="parameters" element="tns4:MoveSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveSlide_OutputMessage">
    <wsdl:part name="parameters" element="tns4:MoveSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertSlide_InputMessage">
    <wsdl:part name="parameters" element="tns4:InsertSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertSlide_OutputMessage">
    <wsdl:part name="parameters" element="tns4:InsertSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReplaceText_InputMessage">
    <wsdl:part name="parameters" element="tns4:ReplaceText"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReplaceText_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ReplaceTextResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetAnimation_InputMessage">
    <wsdl:part name="parameters" element="tns4:SetAnimation"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetAnimation_OutputMessage">
    <wsdl:part name="parameters" element="tns4:SetAnimationResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransition_InputMessage">
    <wsdl:part name="parameters" element="tns4:SetTransition"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransition_OutputMessage">
    <wsdl:part name="parameters" element="tns4:SetTransitionResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransitionApplyAll_InputMessage">
    <wsdl:part name="parameters" element="tns4:SetTransitionApplyAll"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetTransitionApplyAll_OutputMessage">
    <wsdl:part name="parameters" element="tns4:SetTransitionApplyAllResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReorderAnimation_InputMessage">
    <wsdl:part name="parameters" element="tns4:ReorderAnimation"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReorderAnimation_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ReorderAnimationResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ClearPlaceholder_InputMessage">
    <wsdl:part name="parameters" element="tns4:ClearPlaceholder"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ClearPlaceholder_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ClearPlaceholderResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteSlide_InputMessage">
    <wsdl:part name="parameters" element="tns4:DeleteSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteSlide_OutputMessage">
    <wsdl:part name="parameters" element="tns4:DeleteSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DuplicateSlide_InputMessage">
    <wsdl:part name="parameters" element="tns4:DuplicateSlide"/>
</wsdl:message>

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<wsdl:message name="IPptEdit_DuplicateSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns4:DuplicateSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShowHideSlide_InputMessage">
  <wsdl:part name="parameters" element="tns4>ShowHideSlide"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShowHideSlide_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ShowHideSlideResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReplaceNotes_InputMessage">
  <wsdl:part name="parameters" element="tns4:ReplaceNotes"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReplaceNotes_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ReplaceNotesResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Undo_InputMessage">
  <wsdl:part name="parameters" element="tns4:Undo"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Undo_OutputMessage">
  <wsdl:part name="parameters" element="tns4:UndoResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Redo_InputMessage">
  <wsdl:part name="parameters" element="tns4:Redo"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Redo_OutputMessage">
  <wsdl:part name="parameters" element="tns4:RedoResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangePictureStyle_InputMessage">
  <wsdl:part name="parameters" element="tns4:ChangePictureStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangePictureStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ChangePictureStyleResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ResetPicture_InputMessage">
  <wsdl:part name="parameters" element="tns4:ResetPicture"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ResetPicture_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ResetPictureResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveShape_InputMessage">
  <wsdl:part name="parameters" element="tns4:MoveShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveShape_OutputMessage">
  <wsdl:part name="parameters" element="tns4:MoveShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ResizeShape_InputMessage">
  <wsdl:part name="parameters" element="tns4:ResizeShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ResizeShape_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ResizeShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RotateShape_InputMessage">
  <wsdl:part name="parameters" element="tns4:RotateShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RotateShape_OutputMessage">
  <wsdl:part name="parameters" element="tns4:RotateShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_FlipShape_InputMessage">
  <wsdl:part name="parameters" element="tns4:FlipShape"/>

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    </wsdl:message>
<wsdl:message name="IPptEdit_FlipShape_OutputMessage">
    <wsdl:part name="parameters" element="tns4:FlipShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertShape_InputMessage">
    <wsdl:part name="parameters" element="tns4:InsertShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertShape_OutputMessage">
    <wsdl:part name="parameters" element="tns4:InsertShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DuplicateShape_InputMessage">
    <wsdl:part name="parameters" element="tns4:DuplicateShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DuplicateShape_OutputMessage">
    <wsdl:part name="parameters" element="tns4:DuplicateShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ArrangeShape_InputMessage">
    <wsdl:part name="parameters" element="tns4:ArrangeShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ArrangeShape_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ArrangeShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UngroupShape_InputMessage">
    <wsdl:part name="parameters" element="tns4:UngroupShape"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UngroupShape_OutputMessage">
    <wsdl:part name="parameters" element="tns4:UngroupShapeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeStyle_InputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeStyle_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeStyleResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeFill_InputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeFill"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeFill_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeFillResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RemoveShapeFill_InputMessage">
    <wsdl:part name="parameters" element="tns4:RemoveShapeFill"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RemoveShapeFill_OutputMessage">
    <wsdl:part name="parameters" element="tns4:RemoveShapeFillResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineColor_InputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineColor"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineColor_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineColorResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineWidth_InputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineWidth"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineWidth_OutputMessage">
    <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineWidthResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_InputMessage">

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<wsdl:part name="parameters" element="tns4:ApplyShapeOutlineDashStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineDashStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineDashStyleResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_InputMessage">
  <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineEndStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyShapeOutlineEndStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ApplyShapeOutlineEndStyleResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RemoveShapeOutline_InputMessage">
  <wsdl:part name="parameters" element="tns4:RemoveShapeOutline"/>
</wsdl:message>
<wsdl:message name="IPptEdit_RemoveShapeOutline_OutputMessage">
  <wsdl:part name="parameters" element="tns4:RemoveShapeOutlineResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SaveAndClose_InputMessage">
  <wsdl:part name="parameters" element="tns4:SaveAndClose"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SaveAndClose_OutputMessage">
  <wsdl:part name="parameters" element="tns4:SaveAndCloseResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UpdateCanary_InputMessage">
  <wsdl:part name="parameters" element="tns4:UpdateCanary"/>
</wsdl:message>
<wsdl:message name="IPptEdit_UpdateCanary_OutputMessage">
  <wsdl:part name="parameters" element="tns4:UpdateCanaryResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Print_InputMessage">
  <wsdl:part name="parameters" element="tns4:Print"/>
</wsdl:message>
<wsdl:message name="IPptEdit_Print_OutputMessage">
  <wsdl:part name="parameters" element="tns4:PrintResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtLayout_InputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtLayout"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtLayout_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtLayoutResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtColor_InputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtColor"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtColor_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtColorResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtStyle_InputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtStyle"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ChangeSmartArtStyle_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ChangeSmartArtStyleResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertSmartArt_InputMessage">
  <wsdl:part name="parameters" element="tns4:InsertSmartArt"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertSmartArt_OutputMessage">
  <wsdl:part name="parameters" element="tns4:InsertSmartArtResponse"/>
</wsdl:message>

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<wsdl:message name="IPptEdit_ResetSmartArt_InputMessage">
  <wsdl:part name="parameters" element="tns4:ResetSmartArt"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ResetSmartArt_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ResetSmartArtResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReverseSmartArt_InputMessage">
  <wsdl:part name="parameters" element="tns4:ReverseSmartArt"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ReverseSmartArt_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ReverseSmartArtResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyTheme_InputMessage">
  <wsdl:part name="parameters" element="tns4:ApplyTheme"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ApplyTheme_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ApplyThemeResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetWordArt_InputMessage">
  <wsdl:part name="parameters" element="tns4:SetWordArt"/>
</wsdl:message>
<wsdl:message name="IPptEdit_SetWordArt_OutputMessage">
  <wsdl:part name="parameters" element="tns4:SetWordArtResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertClipart_InputMessage">
  <wsdl:part name="parameters" element="tns4:InsertClipart"/>
</wsdl:message>
<wsdl:message name="IPptEdit_InsertClipart_OutputMessage">
  <wsdl:part name="parameters" element="tns4:InsertClipartResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShapeFormatPainting_InputMessage">
  <wsdl:part name="parameters" element="tns4:ShapeFormatPainting"/>
</wsdl:message>
<wsdl:message name="IPptEdit_ShapeFormatPainting_OutputMessage">
  <wsdl:part name="parameters" element="tns4:ShapeFormatPaintingResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_AddComment_InputMessage">
  <wsdl:part name="parameters" element="tns4:AddComment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_AddComment_OutputMessage">
  <wsdl:part name="parameters" element="tns4:AddCommentResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteComment_InputMessage">
  <wsdl:part name="parameters" element="tns4:DeleteComment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_DeleteComment_OutputMessage">
  <wsdl:part name="parameters" element="tns4:DeleteCommentResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_EditComment_InputMessage">
  <wsdl:part name="parameters" element="tns4>EditComment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_EditComment_OutputMessage">
  <wsdl:part name="parameters" element="tns4>EditCommentResponse"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveComment_InputMessage">
  <wsdl:part name="parameters" element="tns4:MoveComment"/>
</wsdl:message>
<wsdl:message name="IPptEdit_MoveComment_OutputMessage">
  <wsdl:part name="parameters" element="tns4:MoveCommentResponse"/>

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    </wsdl:message>
    <wsdl:portType name="IPptEdit">
        <wsdl:operation name="GetPresentationId">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationId"
message="tns4:IPptEdit_GetPresentationId_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetPresentationIdResponse"
message="tns4:IPptEdit_GetPresentationId_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="GetCoauthUpdates">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdates"
message="tns4:IPptEdit_GetCoauthUpdates_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetCoauthUpdatesResponse"
message="tns4:IPptEdit_GetCoauthUpdates_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="GetEditPresInfo">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfo"
message="tns4:IPptEdit_GetEditPresInfo_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoResponse"
message="tns4:IPptEdit_GetEditPresInfo_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="GetEditPresInfoGetEditSlideById">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse"
message="tns4:IPptEdit_GetEditPresInfoGetEditSlideById_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="GetEditSlide">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlide"
message="tns4:IPptEdit_GetEditSlide_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/GetEditSlideResponse"
message="tns4:IPptEdit_GetEditSlide_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="MoveSlide">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlide" message="tns4:IPptEdit_MoveSlide_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveSlideResponse"
message="tns4:IPptEdit_MoveSlide_OutputMessage"/>
        </wsdl:operation>
        <wsdl:operation name="InsertSlide">

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<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlide"
message="tns4:IPptEdit_InsertSlide_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSlideResponse"
message="tns4:IPptEdit_InsertSlide_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ReplaceText">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceText"
message="tns4:IPptEdit_ReplaceText_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceTextResponse"
message="tns4:IPptEdit_ReplaceText_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="SetAnimation">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimation"
message="tns4:IPptEdit_SetAnimation_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetAnimationResponse"
message="tns4:IPptEdit_SetAnimation_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="SetTransition">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransition"
message="tns4:IPptEdit_SetTransition_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionResponse"
message="tns4:IPptEdit_SetTransition_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="SetTransitionApplyAll">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAll"
message="tns4:IPptEdit_SetTransitionApplyAll_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetTransitionApplyAllResponse"
message="tns4:IPptEdit_SetTransitionApplyAll_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ReorderAnimation">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimation"
message="tns4:IPptEdit_ReorderAnimation_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReorderAnimationResponse"
message="tns4:IPptEdit_ReorderAnimation_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ClearPlaceholder">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholder"
message="tns4:IPptEdit_ClearPlaceholder_OutputMessage"/>

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ServerInternalService/IPptEdit/ClearPlaceholder"
message="tns4:IPptEdit_ClearPlaceholder_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ClearPlaceholderResponse"
message="tns4:IPptEdit_ClearPlaceholder_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="DeleteSlide">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlide"
message="tns4:IPptEdit_DeleteSlide_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteSlideResponse"
message="tns4:IPptEdit_DeleteSlide_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="DuplicateSlide">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlide"
message="tns4:IPptEdit_DuplicateSlide_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateSlideResponse"
message="tns4:IPptEdit_DuplicateSlide_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="ShowHideSlide">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit>ShowHideSlide"
message="tns4:IPptEdit_ShowHideSlide_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit>ShowHideSlideResponse"
message="tns4:IPptEdit_ShowHideSlide_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="ReplaceNotes">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotes"
message="tns4:IPptEdit_ReplaceNotes_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReplaceNotesResponse"
message="tns4:IPptEdit_ReplaceNotes_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="Undo">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Undo" message="tns4:IPptEdit_Undo_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UndoResponse" message="tns4:IPptEdit_Undo_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="Redo">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Redo" message="tns4:IPptEdit_Redo_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RedoResponse" message="tns4:IPptEdit_Redo_OutputMessage"/>
    </wsdl:operation>

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<wsdl:operation name="ChangePictureStyle">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ChangePictureStyle"
        message="tns4:IPptEdit_ChangePictureStyle_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ChangePictureStyleResponse"
        message="tns4:IPptEdit_ChangePictureStyle_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ResetPicture">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ResetPicture"
        message="tns4:IPptEdit_ResetPicture_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ResetPictureResponse"
        message="tns4:IPptEdit_ResetPicture_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="MoveShape">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/MoveShape" message="tns4:IPptEdit_MoveShape_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/MoveShapeResponse"
        message="tns4:IPptEdit_MoveShape_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ResizeShape">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ResizeShape"
        message="tns4:IPptEdit_ResizeShape_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/ResizeShapeResponse"
        message="tns4:IPptEdit_ResizeShape_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="RotateShape">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/RotateShape"
        message="tns4:IPptEdit_RotateShape_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/RotateShapeResponse"
        message="tns4:IPptEdit_RotateShape_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="FlipShape">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/FlipShape" message="tns4:IPptEdit_FlipShape_InputMessage"/>
    <wsdl:output>
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
        ServerInternalService/IPptEdit/FlipShapeResponse"
        message="tns4:IPptEdit_FlipShape_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="InsertShape">
    <wsdl:input
        wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit

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ServerInternalService/IPptEdit/InsertShape"
message="tns4:IPptEdit_InsertShape_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertShapeResponse"
message="tns4:IPptEdit_InsertShape_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="DuplicateShape">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShape"
message="tns4:IPptEdit_DuplicateShape_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DuplicateShapeResponse"
message="tns4:IPptEdit_DuplicateShape_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="ArrangeShape">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShape"
message="tns4:IPptEdit_ArrangeShape_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ArrangeShapeResponse"
message="tns4:IPptEdit_ArrangeShape_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="UngroupShape">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShape"
message="tns4:IPptEdit_UngroupShape_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UngroupShapeResponse"
message="tns4:IPptEdit_UngroupShape_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="ApplyShapeStyle">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyle"
message="tns4:IPptEdit_ApplyShapeStyle_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeStyleResponse"
message="tns4:IPptEdit_ApplyShapeStyle_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="ApplyShapeFill">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFill"
message="tns4:IPptEdit_ApplyShapeFill_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyShapeFillResponse"
message="tns4:IPptEdit_ApplyShapeFill_OutputMessage"/>
    </wsdl:operation>
<wsdl:operation name="RemoveShapeFill">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/RemoveShapeFill"
message="tns4:IPptEdit_RemoveShapeFill_InputMessage"/>

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<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/RemoveShapeFillResponse"
message="tns4:IPPtEdit_RemoveShapeFill_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ApplyShapeOutlineColor">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineColor"
message="tns4:IPPtEdit_ApplyShapeOutlineColor_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineColorResponse"
message="tns4:IPPtEdit_ApplyShapeOutlineColor_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ApplyShapeOutlineWidth">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineWidth"
message="tns4:IPPtEdit_ApplyShapeOutlineWidth_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineWidthResponse"
message="tns4:IPPtEdit_ApplyShapeOutlineWidth_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ApplyShapeOutlineDashStyle">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineDashStyle"
message="tns4:IPPtEdit_ApplyShapeOutlineDashStyle_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineDashStyleResponse"
message="tns4:IPPtEdit_ApplyShapeOutlineDashStyle_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ApplyShapeOutlineEndStyle">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineEndStyle"
message="tns4:IPPtEdit_ApplyShapeOutlineEndStyle_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/ApplyShapeOutlineEndStyleResponse"
message="tns4:IPPtEdit_ApplyShapeOutlineEndStyle_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="RemoveShapeOutline">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/RemoveShapeOutline"
message="tns4:IPPtEdit_RemoveShapeOutline_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/RemoveShapeOutlineResponse"
message="tns4:IPPtEdit_RemoveShapeOutline_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="SaveAndClose">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/SaveAndClose"
message="tns4:IPPtEdit_SaveAndClose_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPPtEdit/SaveAndCloseResponse"
message="tns4:IPPtEdit_SaveAndClose_OutputMessage"/>

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ServerInternalService/IPptEdit/SaveAndCloseResponse"
message="tns4:IPptEdit_SaveAndClose_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="UpdateCanary">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanary"
message="tns4:IPptEdit_UpdateCanary_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/UpdateCanaryResponse"
message="tns4:IPptEdit_UpdateCanary_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="Print">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/Print" message="tns4:IPptEdit_Print_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/PrintResponse" message="tns4:IPptEdit_Print_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="ChangeSmartArtLayout">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayout"
message="tns4:IPptEdit_ChangeSmartArtLayout_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse"
message="tns4:IPptEdit_ChangeSmartArtLayout_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="ChangeSmartArtColor">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColor"
message="tns4:IPptEdit_ChangeSmartArtColor_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtColorResponse"
message="tns4:IPptEdit_ChangeSmartArtColor_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="ChangeSmartArtStyle">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyle"
message="tns4:IPptEdit_ChangeSmartArtStyle_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ChangeSmartArtStyleResponse"
message="tns4:IPptEdit_ChangeSmartArtStyle_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="InsertSmartArt">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArt"
message="tns4:IPptEdit_InsertSmartArt_InputMessage"/>
    </wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertSmartArtResponse"
message="tns4:IPptEdit_InsertSmartArt_OutputMessage"/>
    </wsdl:operation>
        <wsdl:operation name="ResetSmartArt">

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<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArt"
message="tns4:IPptEdit_ResetSmartArt_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ResetSmartArtResponse"
message="tns4:IPptEdit_ResetSmartArt_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ReverseSmartArt">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArt"
message="tns4:IPptEdit_ReverseSmartArt_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ReverseSmartArtResponse"
message="tns4:IPptEdit_ReverseSmartArt_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ApplyTheme">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyTheme" message="tns4:IPptEdit_ApplyTheme_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ApplyThemeResponse"
message="tns4:IPptEdit_ApplyTheme_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="SetWordArt">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArt" message="tns4:IPptEdit_SetWordArt_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/SetWordArtResponse"
message="tns4:IPptEdit_SetWordArt_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="InsertClipart">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipart"
message="tns4:IPptEdit_InsertClipart_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/InsertClipartResponse"
message="tns4:IPptEdit_InsertClipart_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="ShapeFormatPainting">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPainting"
message="tns4:IPptEdit_ShapeFormatPainting_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/ShapeFormatPaintingResponse"
message="tns4:IPptEdit_ShapeFormatPainting_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="AddComment">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddComment" message="tns4:IPptEdit_AddComment_InputMessage"/>

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<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/AddCommentResponse"
message="tns4:IPptEdit_AddComment_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="DeleteComment">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteComment"
message="tns4:IPptEdit_DeleteComment_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/DeleteCommentResponse"
message="tns4:IPptEdit_DeleteComment_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="EditComment">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditComment"
message="tns4:IPptEdit_EditComment_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/EditCommentResponse"
message="tns4:IPptEdit_EditComment_OutputMessage"/>
</wsdl:operation>
<wsdl:operation name="MoveComment">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveComment"
message="tns4:IPptEdit_MoveComment_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdit
ServerInternalService/IPptEdit/MoveCommentResponse"
message="tns4:IPptEdit_MoveComment_OutputMessage"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="DefaultBinding_IPptEdit" type="tns4:IPptEdit">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
<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">

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<soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/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
erInternalService/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="GetEditSlide">
<soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/IPptEdit/GetEditSlide" style="document"/>
<wsdl:input>
<soap:body use="literal"/>
</wsdl:input>
<wsdl:output>
<soap:body use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="MoveSlide">
<soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/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
erInternalService/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
erInternalService/IPptEdit/ReplaceText" style="document"/>
<wsdl:input>
<soap:body use="literal"/>

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        </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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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
    erInternalService/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
    erInternalService/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
    erInternalService/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
    erInternalService/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
    erInternalService/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
    erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/IPptEdit/RotateShape" 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="FlipShape">
            <soap:operation
                soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/IPptEdit/ApplyShapeOutlineDashStyle" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>

```

```

        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="ApplyShapeOutlineEndStyle">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/IPptEdit/ApplyShapeOutlineEndStyle" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveShapeOutline">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEdits
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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
erInternalService/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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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="ShapeFormatPainting">
        <soap:operation
soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/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/PowerPointEditServerInternalService/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
    erInternalService/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
    erInternalService/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
    erInternalService/IPptEdit/MoveComment" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

7 Appendix B: Full XML Schema

For ease of implementation, the following sections provide the full XML schema for this protocol.

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

7.1

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

```
<?xml version="1.0"?>
<xss:schema
  xmlns:tns="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:xss="http://www.w3.org/2001/XMLSchema">
  <xss:simpleType name="ErrorCode">
    <xss:restriction base="xss:string">
      <xss:enumeration value="ErrorRESERVEDSuccess"/>
      <xss:enumeration value="ErrorRESERVEDUnknown"/>
      <xss:enumeration value="ErrorCantOpenDocumentFileType"/>
      <xss:enumeration value="ErrorCantOpenDocumentIRM"/>
      <xss:enumeration value="ErrorCantOpenDocumentPassword"/>
      <xss:enumeration value="ErrorCantOpenDocument"/>
      <xss:enumeration value="ErrorCantInstallFonts"/>
      <xss:enumeration value="ErrorCantConvertModifyPassword"/>
      <xss:enumeration value="ErrorCantComposeSlideParse"/>
      <xss:enumeration value="ErrorCantComposeSlideUnexpected"/>
      <xss:enumeration value="ErrorWacConversionFailure"/>
      <xss:enumeration value="ErrorResourceNotGenerated"/>
      <xss:enumeration value="ErrorGenericSlideCorruption"/>
      <xss:enumeration value="ErrorFileNotFound"/>
      <xss:enumeration value="ErrorGeneralUnknown"/>
      <xss:enumeration value="ErrorFailedToOpenDocument"/>
      <xss:enumeration value="ErrorFailedToRetrieveResource"/>
      <xss:enumeration value="ErrorFailedToRenderDocument"/>
      <xss:enumeration value="ErrorFailedToRenderSlide"/>
      <xss:enumeration value="ErrorFailedToSaveDocument"/>
      <xss:enumeration value="ErrorCantSaveDocument"/>
      <xss:enumeration value="ErrorInvalidCommand"/>
      <xss: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="ErrorCantOpenDocumentMacro"/>
<xs:enumeration value="ErrorCantOpenDocumentFinal"/>
<xs:enumeration value="ErrorCantOpenDocumentSigned"/>
<xs:enumeration value="ErrorCantOpenEmbeddedFonts"/>
<xs:enumeration value="ErrorNoAvailableEditAppServer"/>
<xs:enumeration value="ErrorServiceUnavailable"/>
<xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
<xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
<xs:enumeration value="ErrorCantOpenDocumentGatekeeperFailure"/>
<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="ErrorLocalChangeLost"/>
<xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
<xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
<xs:enumeration value="ErrorInProgress"/>
<xs:enumeration value="ErrorImageTooLarge"/>
<xs:enumeration value="ErrorImageWrongFormat"/>
<xs:enumeration value="ErrorImageNoAccess"/>
<xs:enumeration value="ErrorRESERVEDLastError"/>
</xs:restriction>
</xs:simpleType>
<xs:element name="ErrorCode" nillable="true" type="tns:ErrorCode"/>
</xs:schema>

```

7.2

[http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface Schema](http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface)

```

<?xml version="1.0"?>
<xs:schema
  xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />

```

```

<xs:simpleType name="ClientActions">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Dismiss"/>
        <xs:enumeration value="Close"/>
        <xs:enumeration value="OpenInClient"/>
        <xs:enumeration value="Refresh"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="ClientActions" nillable="true" type="tns1:ClientActions"/>
</xs:schema>

```

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

```

<?xml version="1.0"?>
<xs:schema xmlns:tns2="http://schemas.datacontract.org/2004/07/p"
elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/p"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared"/>
  <xs:import
  namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
  <xs:complexType name="CoauthUpdate">
    <xs:sequence>
      <xs:element minOccurs="0" name="State" nillable="true" type="tns2:CoauthState"/>
      <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="CoauthUpdate" nillable="true" type="tns2:CoauthUpdate"/>
  <xs:complexType name="CoauthState">
    <xs:sequence>
      <xs:element minOccurs="0" name="cs" type="xs:int"/>
      <xs:element minOccurs="0" name="et" nillable="true" type="tns2:ArrayOfEditorInfo"/>
      <xs:element minOccurs="0" name="lsave" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="lsmce" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="lsum" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="meid" nillable="true" type="xs:string"/>
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  </xs:complexType>
  <xs:element name="CoauthState" nillable="true" type="tns2:CoauthState"/>
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type="tns2:EditorInfo"/>
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  </xs:complexType>
  <xs:element name="ArrayOfEditorInfo" nillable="true" type="tns2:ArrayOfEditorInfo"/>
  <xs:complexType name="EditorInfo">
    <xs:sequence>
      <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"/>
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  </xs:complexType>
</xs:schema>

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<xs:element minOccurs="0" name="ID" nillable="true" type="xs:string"/>
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<xs:element name="EditorInfo" nillable="true" type="tns2:EditorInfo"/>
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<xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
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</xs:sequence>
</xs:complexType>
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<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>
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<xs:element minOccurs="0" name="EditSlideInfos" nillable="true"
type="tns2:ArrayOfEditSlideInfoFe"/>
<xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="MainMasters" nillable="true"
type="tns2:ArrayOfMainMasterFe"/>
<xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
<xs:element minOccurs="0" name="Rtl" type="xs:boolean"/>
<xs:element minOccurs="0" name="Size" nillable="true" type="tns2:Point"/>
<xs:element minOccurs="0" name="Slide" nillable="true" type="tns2>EditSlide"/>
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<xs:sequence>

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<xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideInfoFe" nillable="true"
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type="tns2:ArrayOfEditSlideInfoFe"/>
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<xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
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<xs:element minOccurs="0" name="Html" nillable="true" type="xs:string"/>
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<xs:element minOccurs="0" name="ImgId" nillable="true" type="xs:string"/>
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<xs:element minOccurs="0" name="Right" type="xs:int"/>
<xs:element minOccurs="0" name="Top" type="xs:int"/>
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<xs:element minOccurs="0" name="Y" type="xs:int"/>
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<xs:sequence>
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type="tns2>MainMasterFe"/>
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<xs:complexType name="MainMasterFe">
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type="tns2:ArrayOfContentMasterFe"/>
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      <xs:element minOccurs="0" name="InContent" type="xs:boolean"/>
      <xs:element minOccurs="0" name="LineStyles" nillable="true"
type="tns2:ArrayOfStyleGalleryItem"/>
        <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="ShapeStyles" nillable="true"
type="tns2:ArrayOfStyleGalleryItem"/>
          <xs:element minOccurs="0" name="ThemeFamilyId" nillable="true" type="xs:string"/>
          <xs:element minOccurs="0" name="VariantIndex" type="xs:int"/>
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  </xs:complexType>
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<xs:complexType name="ArrayOfContentMasterFe">
  <xs:sequence>
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type="tns2:ArrayOfContentMasterFe"/>
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type="tns2:StyleGalleryItem"/>
  </xs:sequence>
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<xs:element name="ArrayOfStyleGalleryItem" nillable="true"
type="tns2:ArrayOfStyleGalleryItem"/>
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  <xs:sequence>
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</xs:complexType>
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<xs:complexType name="EditSlide">
  <xs:sequence>
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    <xs:element minOccurs="0" name="Created" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="EditAnims" nillable="true"
type="tns2:ArrayOfEditAnimInfo"/>
      <xs:element minOccurs="0" name="EditShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
        <xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns2>EditTransitionInfo"/>
          <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
          <xs:element minOccurs="0" name="ID" type="tns2:SlideID"/>

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<xs:element minOccurs="0" name="IsTitleContentMaster" type="xs:boolean"/>
<xs:element minOccurs="0" name="MainMasterId" type="xs:unsignedInt"/>
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<xs:element minOccurs="0" name="Theme" nillable="true" type="tns2:Theme"/>
<xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true"
type="tns2:ViewElement"/>
    <xs:element minOccurs="0" name="ViewElems" nillable="true"
type="tns2:ArrayOfViewElement"/>
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<xs:element name="EditSlide" nillable="true" type="tns2>EditSlide"/>
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type="tns2:Comment"/>
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        <xs:element minOccurs="0" name="authorName" nillable="true" type="xs:string"/>
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type="tns2:EditAnimInfo"/>
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</xs:complexType>
<xs:element name="ArrayOfEditAnimInfo" nillable="true" type="tns2:ArrayOfEditAnimInfo"/>
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        <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"/>
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type="tns2:EditShape"/>
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</xs:complexType>
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<xs:complexType name="EditShape">

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<xs:sequence>
    <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns2:Rectangle"/>
    <xs:element minOccurs="0" name="EditHtml" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FFlippedHorizontally" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FFlippedVertically" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FontSizeMapping" nillable="true"
type="tns2:FontSizeMapping"/>
        <xs:element minOccurs="0" name="HasEffectAndNoFill" type="xs:boolean"/>
        <xs:element minOccurs="0" name="IsActiveX" type="xs:boolean"/>
        <xs:element minOccurs="0" name="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="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="PlaceholderType" type="xs:unsignedInt"/>
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            <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="ShapeViewElemId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="SmartArtInfo" nillable="true"
type="tns2:SmartArtInfo"/>
                <xs:element minOccurs="0" name="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"/>
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        <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"/>
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</xs:complexType>
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<xs:complexType name="BoundingRegion">
    <xs:sequence>
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        <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns2:Point"/>
        <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns2:Point"/>
        <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns2:Point"/>
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<xs:element name="BoundingRegion" nillable="true" type="tns2:BoundingRegion"/>
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    <xs:element minOccurs="0" name="fReverseChecked" type="xs:boolean"/>
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  </xs:sequence>
</xs:complexType>
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<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"/>
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  <xs:sequence>
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  </xs:sequence>
</xs:complexType>
<xs:element name="SlideID" nillable="true" type="tns2:SlideID"/>
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    <xs:element minOccurs="0" name="Html" nillable="true" type="tns2:Html"/>
    <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
  </xs:sequence>
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</xs:complexType>
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    <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Light1" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="Light2" nillable="true" type="tns2:ThemeColor"/>
    <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true"
      type="tns2:PresetSchemeColorMapping"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="Theme" nillable="true" type="tns2:Theme"/>
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    <xs:element minOccurs="0" name="g" type="xs:unsignedByte"/>
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  </xs:sequence>
</xs:complexType>

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        </xs:sequence>
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            <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns2:ThemeColor"/>
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            <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns2:ThemeColor"/>
            <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns2:ThemeColor"/>
            <xs:element minOccurs="0" name="Background1" nillable="true" type="tns2:ThemeColor"/>
            <xs:element minOccurs="0" name="Background2" nillable="true" type="tns2:ThemeColor"/>
            <xs:element minOccurs="0" name="Text1" nillable="true" type="tns2:ThemeColor"/>
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    </xs:complexType>
    <xs:element name="PresetSchemeColorMapping" nillable="true"
type="tns2:PresetSchemeColorMapping"/>
    <xs:complexType name="ArrayOfViewElement">
        <xs:sequence>
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type="tns2:ViewElement"/>
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    </xs:complexType>
    <xs:element name="ArrayOfViewElement" nillable="true" type="tns2:ArrayOfViewElement"/>
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        <xs:sequence>
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minOccurs="0" name="SlideIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="SlideIdList" nillable="true" type="tns2:SlideIdList"/>
    <xs:complexType name="EditCommandResponse">
        <xs:sequence>
            <xs:element minOccurs="0" name="PresChanges" nillable="true"
type="tns2>EditPresentationChanges"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="EditCommandResponse" nillable="true" type="tns2>EditCommandResponse"/>
    <xs:complexType name="EditPresentationChanges">
        <xs:sequence>
            <xs:element minOccurs="0" name="AddedSlideInfos" nillable="true"
type="tns2:ArrayOfEditSlideInfoFe"/>
            <xs:element minOccurs="0" name="AddedSlides" nillable="true"
type="tns2:ArrayOfEditSlide"/>
            <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
            <xs:element minOccurs="0" name="MainMasterIds" nillable="true"
type="tns2:SlideIdList"/>
            <xs:element minOccurs="0" name="ModifiedSlides" nillable="true"
type="tns2:ArrayOfEditSlideChanges"/>
            <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
            <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns2:SlideIdList"/>
            <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
    <xs:element name="EditPresentationChanges" nillable="true"
type="tns2>EditPresentationChanges"/>
    <xs:complexType name="ArrayOfEditSlide">
        <xs:sequence>

```

```

<xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true"
type="tns2>EditSlide"/>
</xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditSlide" nillable="true" type="tns2:ArrayOfEditSlide"/>
<xs:complexType name="ArrayOfEditSlideChanges">
</xs:sequence>
<xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true"
type="tns2>EditSlideChanges"/>
</xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfEditSlideChanges" nillable="true"
type="tns2:ArrayOfEditSlideChanges"/>
<xs:complexType name="EditSlideChanges">
</xs:sequence>
<xs:element minOccurs="0" name="Comments" nillable="true" type="tns2:ArrayOfComment"/>
<xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
<xs:element minOccurs="0" name="EditAnims" nillable="true"
type="tns2:ArrayOfEditAnimInfo"/>
<xs:element minOccurs="0" name="EditTransition" nillable="true"
type="tns2>EditTransitionInfo"/>
<xs:element minOccurs="0" name="Elems" nillable="true" type="tns2:ArrayOfViewElement"/>
<xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
<xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
<xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="ModifiedShapes" nillable="true"
type="tns2:ArrayOfEditShape"/>
<xs:element minOccurs="0" name="Notes" nillable="true" type="tns2:Notes"/>
<xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
<xs:element minOccurs="0" name="Thumb" nillable="true" type="tns2:ViewElement"/>
<xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>
<xs:element name="EditSlideChanges" nillable="true" type="tns2>EditSlideChanges"/>
<xs:complexType name="PptViewingService.PrintResult">
</xs:sequence>
<xs:element minOccurs="0" name="PrintUrl" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>
<xs:element name="PptViewingService.PrintResult" nillable="true"
type="tns2:PptViewingService.PrintResult"/>
</xs:schema>

```

7.4 [http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](http://schemas.microsoft.com/2003/10/Serialization/Arrays)

```

<?xml version="1.0"?>
<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"?>
<xs:schema xmlns:tns3="http://schemas.microsoft.com/2003/10/Serialization/" attributeFormDefault="qualified" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="anyType" nillable="true" type="xs:anyType"/>
    <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
    <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
    <xs:element name="boolean" nillable="true" type="xs:boolean"/>
    <xs:element name="byte" nillable="true" type="xs:byte"/>
    <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
    <xs:element name="decimal" nillable="true" type="xs:decimal"/>
    <xs:element name="double" nillable="true" type="xs:double"/>
    <xs:element name="float" nillable="true" type="xs:float"/>
    <xs:element name="int" nillable="true" type="xs:int"/>
    <xs:element name="long" nillable="true" type="xs:long"/>
    <xs:element name="QName" nillable="true" type="xs:QName"/>
    <xs:element name="short" nillable="true" type="xs:short"/>
    <xs:element name="string" nillable="true" type="xs:string"/>
    <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
    <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
    <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
    <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
    <xs:element name="char" nillable="true" type="tns3:char"/>
    <xs:simpleType name="char">
        <xs:restriction base="xs:int"/>
    </xs:simpleType>
    <xs:element name="duration" nillable="true" type="tns3:duration"/>
    <xs:simpleType name="duration">
        <xs:restriction base="xs:duration">
            <xs:pattern value="-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
            <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
            <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="guid" nillable="true" type="tns3:guid"/>
    <xs:simpleType name="guid">
        <xs:restriction base="xs:string">
            <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{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"?>
```

```

<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="GetPresentationId">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="rawDocId" 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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetCoauthUpdatesResult" nillable="true" type="tns2:ServiceResult"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfo">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
                <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="includedEditSlideIndex" type="xs:int"/>
                <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
                <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfoResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoResult" nillable="true" type="tns2:ServiceResult"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="GetEditPresInfoGetEditSlideById">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>

```

```

<xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
<xs:element minOccurs="0" name="includedEditSlideId" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
    <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetEditPresInfoGetEditSlideByIdResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEditSlide">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetEditSlideResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="GetEditSlideResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MoveSlide">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MoveSlideResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveSlideResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="InsertSlide">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>

```

```

    </xs:element>
<xs:element name="InsertSlideResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSlideResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ReplaceText">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="newText" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ReplaceTextResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceTextResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetAnimation">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="fxId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="sequenceId" type="xs:unsignedInt"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetAnimationResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetAnimationResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetTransition">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="type" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="duration" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="isManualAdvance" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

<xs:element name="SetTransitionResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetTransitionApplyAll">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetTransitionApplyAllResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetTransitionApplyAllResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ReorderAnimation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="fLater" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ReorderAnimationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReorderAnimationResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearPlaceholder">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ClearPlaceholderResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ClearPlaceholderResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="DeleteSlide">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteSlideResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DuplicateSlide">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DuplicateSlideResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ShowHideSlide">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="fHidden" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ShowHideSlideResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShowHideSlideResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ReplaceNotes">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="newNotes" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

```

<xs:element name="ReplaceNotesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReplaceNotesResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Undo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="UndoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UndoResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Redo">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="RedoResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RedoResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ChangePictureStyle">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="pictureStyleId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ChangePictureStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangePictureStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetPictureResult" nillable="true" type="tns2: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveShapeResult" nillable="true" type="tns2: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResizeShapeResult" nillable="true" type="tns2:ServiceResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="RotateShape">
<xs:complexType>
<xs:sequence>
<xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>

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<xs: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RotateShapeResult" nillable="true" type="tns2: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="FlipShapeResult" nillable="true" type="tns2:ServiceResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="InsertShape">
<xs:complexType>
<xs:sequence>
<xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
<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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertShapeResult" nillable="true" type="tns2:ServiceResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="DuplicateShape">
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<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"/>

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<xs:element minOccurs="0" name="destinationSlideId" nillable="true"
type="xs:string"/>
    <xs:element minOccurs="0" name="cloneShapePosX" type="xs:int"/>
    <xs:element minOccurs="0" name="cloneShapePosY" type="xs:int"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="DuplicateShapeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DuplicateShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ArrangeShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UngroupShape">
    <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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UngroupShapeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeStyle">
    <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>

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    </xs:element>
<xs:element name="ApplyShapeStyleResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeStyleResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeFill">
    <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="ApplyShapeFillResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RemoveShapeFill">
    <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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeFillResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ApplyShapeOutlineColor">
    <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>

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

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<xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns2:ServiceResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="RemoveShapeOutline">
<xs:complexType>
<xs:sequence>
<xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="RemoveShapeOutlineResponse">
<xs:complexType>
<xs:sequence>
<xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="RemoveShapeOutlineResult" nillable="true" type="tns2:ServiceResult"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="SaveAndClose">
<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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SaveAndCloseResult" nillable="true" type="tns2: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="UpdateCanaryResult" nillable="true" type="tns2: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>

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```

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

```

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<xs:element name="ChangeSmartArtStyleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ChangeSmartArtStyleResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="InsertSmartArt">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="InsertSmartArtResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ResetSmartArt">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="ResetSmartArtResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ResetSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ReverseSmartArtResult" nillable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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```

    </xs:complexType>
</xs:element>
<xs:element name="ApplyTheme">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="themeFamilyId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="variantIndex" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ApplyThemeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ApplyThemeResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetWordArt">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="styleId" type="xs:int"/>
            <xs:element minOccurs="0" name="isClear" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetWordArtResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="SetWordArtResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="InsertClipart">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="assetId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="Lcid" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="InsertClipartResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="InsertClipartResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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```

<xs:element name="ShapeFormatPainting">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceSlideId" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
      <xs:element minOccurs="0" name="destinationSlideId" nullable="true"
type="xs:string"/>
        <xs:element minOccurs="0" name="destinationShapeId" type="xs:unsignedInt"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
<xs:element name="ShapeFormatPaintingResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="ShapeFormatPaintingResult" nullable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddComment">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="text" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="timeZoneBias" type="xs:int"/>
      <xs:element minOccurs="0" name="parentAuthor" type="xs:int"/>
      <xs:element minOccurs="0" name="parentIndex" type="xs:int"/>
      <xs:element minOccurs="0" name="fHasPos" type="xs:boolean"/>
      <xs:element minOccurs="0" name="x" type="xs:int"/>
      <xs:element minOccurs="0" name="y" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="AddCommentResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="AddCommentResult" nullable="true" type="tns2:ServiceResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteComment">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="presentationId" nullable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="slideId" nullable="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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="DeleteCommentResult" nullable="true" type="tns2: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:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="EditCommentResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MoveComment">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
            <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
            <xs:element minOccurs="0" name="x" type="xs:double"/>
            <xs:element minOccurs="0" name="y" type="xs:double"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="MoveCommentResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/p" minOccurs="0"
name="MoveCommentResult" nillable="true" type="tns2:ServiceResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>

```

8 Appendix C: Product Behavior

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

- Microsoft PowerPoint 2010
- Microsoft PowerPoint Web App
- Microsoft PowerPoint 2013

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

<1> Section 2.1: PowerPoint Web App servers support JSON [[RFC4627](#)] over HTTP and HTTPS.

<2> Section 2.2.4: Support for this complex type was added in 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 Office 2010 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 2.2.4.10:](#) Support for this complex type was added in Office 2013.
- [<22> Section 2.2.4.13:](#) Support for this complex type was added in Office 2013.
- [<23> Section 2.2.4.14:](#) Support for this type was added in Office 2010 Service Pack 1.
- [<24> Section 2.2.4.15:](#) Support for this complex type was added in Office 2013.
- [<25> Section 2.2.4.16:](#) Support for this complex type was added in Office 2013.
- [<26> Section 2.2.4.17:](#) Support for this complex type was added in Office 2013.
- [<27> Section 2.2.4.19:](#) Support for this complex type was added in Office 2013.
- [<28> Section 2.2.4.21:](#) Support for this complex type was added in Office 2013.
- [<29> Section 2.2.4.22:](#) Support for this element was added in Office 2010 Service Pack 1.
- [<30> Section 2.2.4.23:](#) Support for this element was added in Office 2010 Service Pack 1.
- [<31> Section 2.2.4.28:](#) Support for this complex type was added in Office 2013.
- [<32> Section 2.2.4.34:](#) Support for this type was added in Office 2010 Service Pack 1.
- [<33> Section 2.2.4.35:](#) Support for this complex type was added in Office 2013.
- [<34> Section 2.2.4.39:](#) Support for this type was added in Office 2013.
- [<35> Section 2.2.4.42:](#) Support for this complex type was added in Office 2013.
- [<36> Section 2.2.4.45:](#) PowerPoint Web App 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 Web site, for example http://www.contoso.com/Repository/_layouts/editImageHandler.ashx.

The parameters to the endpoint are specified by the following table:

| Parameter name | Definition |
|----------------|---|
| Rid | MUST be ImgId as specified by ViewElement . |
| Pid | MUST be a valid identifier for a presentation as specified in GetPresentationId . |

[<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 Web site, 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 3.1.4.25 . |
| SlideId | MUST be a valid ST_SlideId ([ISO/IEC29500-1:2011] section 19.7.13) that specifies the identifier of the presentation slide. |
| ShapeId | MUST be a valid ST_DrawingElementId ([ISO/IEC29500-1:2011] section 20.1.10.21) that specifies the identifier of the shape. |

[<39> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<40> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<41> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<42> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<43> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<44> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<45> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<46> Section 3.1.4:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<47> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<48> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<49> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<50> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<51> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<52> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<53> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<54> Section 3.1.4:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<55> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<56> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<57> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<58> Section 3.1.4:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<59> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<60> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<61> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<62> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<63> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<64> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<65> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<66> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<67> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<68> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<69> Section 3.1.4:](#) Support for this operation was added in Office 2013.

[<70> Section 3.1.4.1:](#) Support for this operation was added in Office 2013.

[<71> Section 3.1.4.2:](#) Support for this operation was added in Office 2013.

[<72> Section 3.1.4.3:](#) Support for this operation was added in Office 2013.

[<73> Section 3.1.4.4:](#) Support for this operation was added in Office 2013.

[<74> Section 3.1.4.5:](#) Support for this operation was added in Office 2013.

[<75> Section 3.1.4.6:](#) Support for this operation was added in Office 2013.

[<76> Section 3.1.4.7:](#) Support for this operation was added in Office 2013.

[<77> Section 3.1.4.8:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<78> Section 3.1.4.9:](#) Support for this operation was added in Office 2013.

[<79> Section 3.1.4.15:](#) Support for this operation was added in Office 2013.

[<80> Section 3.1.4.17:](#) Support for this operation was added in Office 2013.

[<81> Section 3.1.4.19:](#) Support for this operation was added in Office 2013.

[<82> Section 3.1.4.20:](#) Support for this operation was added in Office 2013.

[<83> Section 3.1.4.21:](#) Support for this operation was added in Office 2013.

[<84> Section 3.1.4.23:](#) Support for this operation was added in Office 2013.

[<85> Section 3.1.4.26:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<86> Section 3.1.4.27:](#) Support for this operation was added in Office 2013.

[<87> Section 3.1.4.30:](#) Support for this operation was added in Office 2013.

[<88> Section 3.1.4.31:](#) Support for this operation was added in Office 2013.

[<89> Section 3.1.4.33:](#) Support for this operation was added in Office 2010 Service Pack 1.

[<90> Section 3.1.4.35:](#) Support for this operation was added in Office 2013.

[<91> Section 3.1.4.36:](#) Support for this operation was added in Office 2013.

[<92> Section 3.1.4.37:](#) Support for this operation was added in Office 2013.

[<93> Section 3.1.4.40:](#) Support for this operation was added in Office 2013.

[<94> Section 3.1.4.42:](#) Support for this operation was added in Office 2013.

[<95> Section 3.1.4.44:](#) Support for this operation was added in Office 2013.

[<96> Section 3.1.4.46:](#) Support for this operation was added in Office 2013.

[<97> Section 3.1.4.47:](#) Support for this operation was added in Office 2013.

[<98> Section 3.1.4.48:](#) Support for this operation was added in Office 2013.

[<99> Section 3.1.4.50:](#) Support for this operation was added in Office 2013.

[<100> Section 3.1.4.53:](#) Support for this operation was added in Office 2013.

[<101> Section 5.1:](#) PowerPoint Web App Technical Preview uses the canary mitigation as follows. On a request to [GetPresentationId](#), 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 the [MS-PWEDPS] protocol document between the October 2012 and February 2013 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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 or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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 **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|--|--|------------------------------|--------------------|
| 2.2.4.1 ArrayOfComment | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.3 ArrayOfEditAnimInfo | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.4 ArrayOfEditorInfo | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.10 ArrayOfStyleGalleryItem | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.13 BoundingRegion | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.14 ClippingInfo | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.15 CoauthState | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.16 CoauthUpdate | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.17 Comment | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.19 EditAnimInfo | Clarified the description of this complex type. | N | Content updated. |

| Section | Tracking number (if applicable) and description | Major change (Y or N) | Change type |
|--|--|------------------------------|--------------------|
| 2.2.4.21 EditorInfo | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.24 EditShape | Clarified the definition of "z-order". | N | Content updated. |
| 2.2.4.28 EditTransitionInfo | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.34 PptViewingService.PrintResult | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.35 PresetSchemeColorMapping | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.38 ServiceResult | Added descriptions of the "Error" and "Result" element value requirements. | Y | New content added. |
| 2.2.4.42 StyleGalleryItem | Clarified the description of this complex type. | N | Content updated. |
| 2.2.4.45 ViewElement | Clarified the definition of "z-order". | N | Content updated. |
| 3.1.3 Initialization | Clarified the descriptions of the two URLs. | N | Content updated. |
| 3.1.4 Message Processing Events and Sequencing Rules | Moved the endnote to section 3.1.3. | N | Content updated. |
| 3.1.4.10.2.1 ChangePictureStyle | Modified the description for the pictureStyleId. | N | Content updated. |
| 4.1 Sample Protocol Interaction | Revised "SlideId" to "ShapeId" as the identifier of the shape, | Y | Content updated. |

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