**[MS-PWEDPS]:**

**PowerPoint Web Editor Data Protocol**

Intellectual Property Rights Notice for Open Specifications Documentation

* **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
* **Copyrights**. This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
* **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
* **Patents**. Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](https://go.microsoft.com/fwlink/?LinkId=214445) or the [Microsoft Community Promise](https://go.microsoft.com/fwlink/?LinkId=214448). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting [iplg@microsoft.com](mailto:iplg@microsoft.com).
* **License Programs**. To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](https://msdn.microsoft.com/en-us/openspecifications/dn750984).
* **Trademarks**. The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit [www.microsoft.com/trademarks](https://www.microsoft.com/trademarks).
* **Fictitious Names**. The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

**Reservation of Rights**. All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

**Tools**. The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

**Support.** For questions and support, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/13/2009 | 0.1 | Major | Initial Availability |
| 8/28/2009 | 0.2 | Editorial | Revised and edited the technical content |
| 11/6/2009 | 0.3 | Editorial | Revised and edited the technical content |
| 2/19/2010 | 1.0 | Major | Updated and revised the technical content |
| 3/31/2010 | 1.01 | Editorial | Revised and edited the technical content |
| 4/30/2010 | 1.02 | Editorial | Revised and edited the technical content |
| 6/7/2010 | 1.03 | Editorial | Revised and edited the technical content |
| 6/29/2010 | 1.04 | Editorial | Changed language and formatting in the technical content. |
| 7/23/2010 | 1.05 | Minor | Clarified the meaning of the technical content. |
| 9/27/2010 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.06 | Minor | Clarified the meaning of the technical content. |
| 12/17/2010 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/18/2011 | 1.06 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/10/2011 | 2.0 | Major | Significantly changed the technical content. |
| 1/20/2012 | 3.0 | Major | Significantly changed the technical content. |
| 4/11/2012 | 3.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 3.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 4.0 | Major | Significantly changed the technical content. |
| 2/11/2013 | 5.0 | Major | Significantly changed the technical content. |
| 7/30/2013 | 6.0 | Major | Significantly changed the technical content. |
| 11/18/2013 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/10/2014 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/30/2014 | 6.1 | Minor | Clarified the meaning of the technical content. |
| 7/31/2014 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/30/2014 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/16/2015 | 7.0 | Major | Significantly changed the technical content. |
| 6/23/2016 | 7.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/14/2016 | 7.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/20/2017 | 7.1 | Minor | Clarified the meaning of the technical content. |
| 9/19/2017 | 8.0 | Major | Significantly changed the technical content. |
| 12/12/2017 | 8.1 | Minor | Clarified the meaning of the technical content. |
| 6/18/2019 | 8.2 | Minor | Clarified the meaning of the technical content. |
| 11/19/2019 | 8.3 | Minor | Clarified the meaning of the technical content. |

Table of Contents

[1 Introduction 20](#_Toc24518166)

[1.1 Glossary 20](#_Toc24518167)

[1.2 References 22](#_Toc24518168)

[1.2.1 Normative References 22](#_Toc24518169)

[1.2.2 Informative References 23](#_Toc24518170)

[1.3 Protocol Overview (Synopsis) 23](#_Toc24518171)

[1.4 Relationship to Other Protocols 24](#_Toc24518172)

[1.5 Prerequisites/Preconditions 24](#_Toc24518173)

[1.6 Applicability Statement 24](#_Toc24518174)

[1.7 Versioning and Capability Negotiation 24](#_Toc24518175)

[1.8 Vendor-Extensible Fields 25](#_Toc24518176)

[1.9 Standards Assignments 25](#_Toc24518177)

[2 Messages 26](#_Toc24518178)

[2.1 Transport 26](#_Toc24518179)

[2.2 Common Message Syntax 26](#_Toc24518180)

[2.2.1 Namespaces 26](#_Toc24518181)

[2.2.2 Messages 27](#_Toc24518182)

[2.2.3 Elements 27](#_Toc24518183)

[2.2.4 Complex Types 27](#_Toc24518184)

[2.2.4.1 ArrayOfComment 29](#_Toc24518185)

[2.2.4.2 ArrayOfContentMasterFe 30](#_Toc24518186)

[2.2.4.3 ArrayOfEditAnimInfo 30](#_Toc24518187)

[2.2.4.4 ArrayOfEditorInfo 30](#_Toc24518188)

[2.2.4.5 ArrayOfEditShape 30](#_Toc24518189)

[2.2.4.6 ArrayOfEditSlide 31](#_Toc24518190)

[2.2.4.7 ArrayOfEditSlideChanges 31](#_Toc24518191)

[2.2.4.8 ArrayOfEditSlideInfoFe 31](#_Toc24518192)

[2.2.4.9 ArrayOfMainMasterFe 31](#_Toc24518193)

[2.2.4.10 ArrayOfMainMasterResourcesFe 32](#_Toc24518194)

[2.2.4.11 ArrayOfSlideUpdateInfo 32](#_Toc24518195)

[2.2.4.12 ArrayOfStyleGalleryItem 32](#_Toc24518196)

[2.2.4.13 ArrayOfunsignedInt 33](#_Toc24518197)

[2.2.4.14 ArrayOfViewElement 33](#_Toc24518198)

[2.2.4.15 BoundingRegion 33](#_Toc24518199)

[2.2.4.16 ClippingInfo 34](#_Toc24518200)

[2.2.4.17 CoauthState 34](#_Toc24518201)

[2.2.4.18 CoauthUpdate 35](#_Toc24518202)

[2.2.4.19 Comment 35](#_Toc24518203)

[2.2.4.20 ContentMasterFe 35](#_Toc24518204)

[2.2.4.21 ContentUpdateInfo 36](#_Toc24518205)

[2.2.4.22 EditAnimInfo 36](#_Toc24518206)

[2.2.4.23 EditCommandResponse 37](#_Toc24518207)

[2.2.4.24 EditorInfo 37](#_Toc24518208)

[2.2.4.25 EditPresentationChanges 38](#_Toc24518209)

[2.2.4.26 EditPresentationInfo 38](#_Toc24518210)

[2.2.4.27 EditPresentationResources 39](#_Toc24518211)

[2.2.4.28 EditShape 40](#_Toc24518212)

[2.2.4.29 EditSlide 43](#_Toc24518213)

[2.2.4.30 EditSlideChanges 44](#_Toc24518214)

[2.2.4.31 EditSlideInfoFe 45](#_Toc24518215)

[2.2.4.32 EditTransitionInfo 45](#_Toc24518216)

[2.2.4.33 FontSizeMapping 46](#_Toc24518217)

[2.2.4.34 Html 46](#_Toc24518218)

[2.2.4.35 MainMasterFe 47](#_Toc24518219)

[2.2.4.36 MainMasterResourcesFe 47](#_Toc24518220)

[2.2.4.37 Notes 48](#_Toc24518221)

[2.2.4.38 Point 48](#_Toc24518222)

[2.2.4.39 PptViewingService.PrintResult 48](#_Toc24518223)

[2.2.4.40 PresetSchemeColorMapping 48](#_Toc24518224)

[2.2.4.41 Rectangle 49](#_Toc24518225)

[2.2.4.42 ServiceError 50](#_Toc24518226)

[2.2.4.43 ServiceResult 50](#_Toc24518227)

[2.2.4.44 SlideID 51](#_Toc24518228)

[2.2.4.45 SlideIdList 51](#_Toc24518229)

[2.2.4.46 SlideUpdateInfo 51](#_Toc24518230)

[2.2.4.47 SmartArtInfo 52](#_Toc24518231)

[2.2.4.48 StyleGalleryItem 52](#_Toc24518232)

[2.2.4.49 Theme 52](#_Toc24518233)

[2.2.4.50 ThemeColor 53](#_Toc24518234)

[2.2.4.51 ViewElement 53](#_Toc24518235)

[2.2.5 Simple Types 54](#_Toc24518236)

[2.2.5.1 char 54](#_Toc24518237)

[2.2.5.2 ClientActions 55](#_Toc24518238)

[2.2.5.3 duration 55](#_Toc24518239)

[2.2.5.4 ErrorCode 56](#_Toc24518240)

[2.2.5.5 guid 60](#_Toc24518241)

[2.2.5.6 ServiceErrorType 60](#_Toc24518242)

[2.2.6 Attributes 61](#_Toc24518243)

[2.2.7 Groups 61](#_Toc24518244)

[2.2.8 Attribute Groups 61](#_Toc24518245)

[3 Protocol Details 62](#_Toc24518246)

[3.1 Server Details 62](#_Toc24518247)

[3.1.1 Abstract Data Model 63](#_Toc24518248)

[3.1.2 Timers 63](#_Toc24518249)

[3.1.3 Initialization 63](#_Toc24518250)

[3.1.4 Message Processing Events and Sequencing Rules 63](#_Toc24518251)

[3.1.4.1 AddComment 66](#_Toc24518252)

[3.1.4.1.1 Messages 67](#_Toc24518253)

[3.1.4.1.1.1 IPptEdit\_AddComment\_InputMessage 67](#_Toc24518254)

[3.1.4.1.1.2 IPptEdit\_AddComment\_OutputMessage 67](#_Toc24518255)

[3.1.4.1.2 Elements 67](#_Toc24518256)

[3.1.4.1.2.1 AddComment 67](#_Toc24518257)

[3.1.4.1.2.2 AddCommentResponse 68](#_Toc24518258)

[3.1.4.1.3 Complex Types 68](#_Toc24518259)

[3.1.4.1.4 Simple Types 69](#_Toc24518260)

[3.1.4.1.5 Attributes 69](#_Toc24518261)

[3.1.4.1.6 Groups 69](#_Toc24518262)

[3.1.4.1.7 Attribute Groups 69](#_Toc24518263)

[3.1.4.2 ApplyShapeFill 69](#_Toc24518264)

[3.1.4.2.1 Messages 69](#_Toc24518265)

[3.1.4.2.1.1 IPptEdit\_ApplyShapeFill\_InputMessage 69](#_Toc24518266)

[3.1.4.2.1.2 IPptEdit\_ApplyShapeFill\_OutputMessage 70](#_Toc24518267)

[3.1.4.2.2 Elements 70](#_Toc24518268)

[3.1.4.2.2.1 ApplyShapeFill 70](#_Toc24518269)

[3.1.4.2.2.2 ApplyShapeFillResponse 71](#_Toc24518270)

[3.1.4.2.3 Complex Types 71](#_Toc24518271)

[3.1.4.2.4 Simple Types 71](#_Toc24518272)

[3.1.4.2.5 Attributes 71](#_Toc24518273)

[3.1.4.2.6 Groups 71](#_Toc24518274)

[3.1.4.2.7 Attribute Groups 71](#_Toc24518275)

[3.1.4.3 ApplyShapeOutlineColor 71](#_Toc24518276)

[3.1.4.3.1 Messages 72](#_Toc24518277)

[3.1.4.3.1.1 IPptEdit\_ApplyShapeOutlineColor\_InputMessage 72](#_Toc24518278)

[3.1.4.3.1.2 IPptEdit\_ApplyShapeOutlineColor\_OutputMessage 72](#_Toc24518279)

[3.1.4.3.2 Elements 72](#_Toc24518280)

[3.1.4.3.2.1 ApplyShapeOutlineColor 72](#_Toc24518281)

[3.1.4.3.2.2 ApplyShapeOutlineColorResponse 73](#_Toc24518282)

[3.1.4.3.3 Complex Types 73](#_Toc24518283)

[3.1.4.3.4 Simple Types 74](#_Toc24518284)

[3.1.4.3.5 Attributes 74](#_Toc24518285)

[3.1.4.3.6 Groups 74](#_Toc24518286)

[3.1.4.3.7 Attribute Groups 74](#_Toc24518287)

[3.1.4.4 ApplyShapeOutlineDashStyle 74](#_Toc24518288)

[3.1.4.4.1 Messages 74](#_Toc24518289)

[3.1.4.4.1.1 IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage 74](#_Toc24518290)

[3.1.4.4.1.2 IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage 75](#_Toc24518291)

[3.1.4.4.2 Elements 75](#_Toc24518292)

[3.1.4.4.2.1 ApplyShapeOutlineDashStyle 75](#_Toc24518293)

[3.1.4.4.2.2 ApplyShapeOutlineDashStyleResponse 76](#_Toc24518294)

[3.1.4.4.3 Complex Types 76](#_Toc24518295)

[3.1.4.4.4 Simple Types 76](#_Toc24518296)

[3.1.4.4.5 Attributes 76](#_Toc24518297)

[3.1.4.4.6 Groups 76](#_Toc24518298)

[3.1.4.4.7 Attribute Groups 76](#_Toc24518299)

[3.1.4.5 ApplyShapeOutlineEndStyle 77](#_Toc24518300)

[3.1.4.5.1 Messages 77](#_Toc24518301)

[3.1.4.5.1.1 IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage 77](#_Toc24518302)

[3.1.4.5.1.2 IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage 77](#_Toc24518303)

[3.1.4.5.2 Elements 78](#_Toc24518304)

[3.1.4.5.2.1 ApplyShapeOutlineEndStyle 78](#_Toc24518305)

[3.1.4.5.2.2 ApplyShapeOutlineEndStyleResponse 79](#_Toc24518306)

[3.1.4.5.3 Complex Types 79](#_Toc24518307)

[3.1.4.5.4 Simple Types 79](#_Toc24518308)

[3.1.4.5.5 Attributes 79](#_Toc24518309)

[3.1.4.5.6 Groups 79](#_Toc24518310)

[3.1.4.5.7 Attribute Groups 79](#_Toc24518311)

[3.1.4.6 ApplyShapeOutlineWidth 80](#_Toc24518312)

[3.1.4.6.1 Messages 80](#_Toc24518313)

[3.1.4.6.1.1 IPptEdit\_ApplyShapeOutlineWidth\_InputMessage 80](#_Toc24518314)

[3.1.4.6.1.2 IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage 80](#_Toc24518315)

[3.1.4.6.2 Elements 80](#_Toc24518316)

[3.1.4.6.2.1 ApplyShapeOutlineWidth 81](#_Toc24518317)

[3.1.4.6.2.2 ApplyShapeOutlineWidthResponse 81](#_Toc24518318)

[3.1.4.6.3 Complex Types 81](#_Toc24518319)

[3.1.4.6.4 Simple Types 82](#_Toc24518320)

[3.1.4.6.5 Attributes 82](#_Toc24518321)

[3.1.4.6.6 Groups 82](#_Toc24518322)

[3.1.4.6.7 Attribute Groups 82](#_Toc24518323)

[3.1.4.7 ApplyShapeStyle 82](#_Toc24518324)

[3.1.4.7.1 Messages 82](#_Toc24518325)

[3.1.4.7.1.1 IPptEdit\_ApplyShapeStyle\_InputMessage 82](#_Toc24518326)

[3.1.4.7.1.2 IPptEdit\_ApplyShapeStyle\_OutputMessage 83](#_Toc24518327)

[3.1.4.7.2 Elements 83](#_Toc24518328)

[3.1.4.7.2.1 ApplyShapeStyle 83](#_Toc24518329)

[3.1.4.7.2.2 ApplyShapeStyleResponse 83](#_Toc24518330)

[3.1.4.7.3 Complex Types 84](#_Toc24518331)

[3.1.4.7.4 Simple Types 84](#_Toc24518332)

[3.1.4.7.5 Attributes 84](#_Toc24518333)

[3.1.4.7.6 Groups 84](#_Toc24518334)

[3.1.4.7.7 Attribute Groups 84](#_Toc24518335)

[3.1.4.8 ApplyTheme 84](#_Toc24518336)

[3.1.4.8.1 Messages 84](#_Toc24518337)

[3.1.4.8.1.1 IPptEdit\_ApplyTheme\_InputMessage 85](#_Toc24518338)

[3.1.4.8.1.2 IPptEdit\_ApplyTheme\_OutputMessage 85](#_Toc24518339)

[3.1.4.8.2 Elements 85](#_Toc24518340)

[3.1.4.8.2.1 ApplyTheme 85](#_Toc24518341)

[3.1.4.8.2.2 ApplyThemeResponse 86](#_Toc24518342)

[3.1.4.8.3 Complex Types 86](#_Toc24518343)

[3.1.4.8.4 Simple Types 86](#_Toc24518344)

[3.1.4.8.5 Attributes 86](#_Toc24518345)

[3.1.4.8.6 Groups 86](#_Toc24518346)

[3.1.4.8.7 Attribute Groups 86](#_Toc24518347)

[3.1.4.9 ArrangeShape 86](#_Toc24518348)

[3.1.4.9.1 Messages 87](#_Toc24518349)

[3.1.4.9.1.1 IPptEdit\_ArrangeShape\_InputMessage 87](#_Toc24518350)

[3.1.4.9.1.2 IPptEdit\_ArrangeShape\_OutputMessage 87](#_Toc24518351)

[3.1.4.9.2 Elements 87](#_Toc24518352)

[3.1.4.9.2.1 ArrangeShape 87](#_Toc24518353)

[3.1.4.9.2.2 ArrangeShapeResponse 88](#_Toc24518354)

[3.1.4.9.3 Complex Types 88](#_Toc24518355)

[3.1.4.9.4 Simple Types 89](#_Toc24518356)

[3.1.4.9.5 Attributes 89](#_Toc24518357)

[3.1.4.9.6 Groups 89](#_Toc24518358)

[3.1.4.9.7 Attribute Groups 89](#_Toc24518359)

[3.1.4.10 ChangeLayout 89](#_Toc24518360)

[3.1.4.10.1 Messages 89](#_Toc24518361)

[3.1.4.10.1.1 IPptEdit\_ChangeLayout\_InputMessage 89](#_Toc24518362)

[3.1.4.10.1.2 IPptEdit\_ChangeLayout\_OutputMessage 90](#_Toc24518363)

[3.1.4.10.2 Elements 90](#_Toc24518364)

[3.1.4.10.2.1 ChangeLayout 90](#_Toc24518365)

[3.1.4.10.2.2 ChangeLayoutResponse 90](#_Toc24518366)

[3.1.4.10.3 Complex Types 91](#_Toc24518367)

[3.1.4.10.4 Simple Types 91](#_Toc24518368)

[3.1.4.10.5 Attributes 91](#_Toc24518369)

[3.1.4.10.6 Groups 91](#_Toc24518370)

[3.1.4.10.7 Attribute Groups 91](#_Toc24518371)

[3.1.4.11 ChangePictureStyle 91](#_Toc24518372)

[3.1.4.11.1 Messages 91](#_Toc24518373)

[3.1.4.11.1.1 IPptEdit\_ChangePictureStyle\_InputMessage 92](#_Toc24518374)

[3.1.4.11.1.2 IPptEdit\_ChangePictureStyle\_OutputMessage 92](#_Toc24518375)

[3.1.4.11.2 Elements 92](#_Toc24518376)

[3.1.4.11.2.1 ChangePictureStyle 92](#_Toc24518377)

[3.1.4.11.2.2 ChangePictureStyleResponse 93](#_Toc24518378)

[3.1.4.11.3 Complex Types 93](#_Toc24518379)

[3.1.4.11.4 Simple Types 93](#_Toc24518380)

[3.1.4.11.5 Attributes 93](#_Toc24518381)

[3.1.4.11.6 Groups 93](#_Toc24518382)

[3.1.4.11.7 Attribute Groups 93](#_Toc24518383)

[3.1.4.12 ChangeSmartArtColor 93](#_Toc24518384)

[3.1.4.12.1 Messages 94](#_Toc24518385)

[3.1.4.12.1.1 IPptEdit\_ChangeSmartArtColor\_InputMessage 94](#_Toc24518386)

[3.1.4.12.1.2 IPptEdit\_ChangeSmartArtColor\_OutputMessage 94](#_Toc24518387)

[3.1.4.12.2 Elements 94](#_Toc24518388)

[3.1.4.12.2.1 ChangeSmartArtColor 95](#_Toc24518389)

[3.1.4.12.2.2 ChangeSmartArtColorResponse 95](#_Toc24518390)

[3.1.4.12.3 Complex Types 95](#_Toc24518391)

[3.1.4.12.4 Simple Types 95](#_Toc24518392)

[3.1.4.12.5 Attributes 96](#_Toc24518393)

[3.1.4.12.6 Groups 96](#_Toc24518394)

[3.1.4.12.7 Attribute Groups 96](#_Toc24518395)

[3.1.4.13 ChangeSmartArtLayout 96](#_Toc24518396)

[3.1.4.13.1 Messages 96](#_Toc24518397)

[3.1.4.13.1.1 IPptEdit\_ChangeSmartArtLayout\_InputMessage 96](#_Toc24518398)

[3.1.4.13.1.2 IPptEdit\_ChangeSmartArtLayout\_OutputMessage 97](#_Toc24518399)

[3.1.4.13.2 Elements 97](#_Toc24518400)

[3.1.4.13.2.1 ChangeSmartArtLayout 97](#_Toc24518401)

[3.1.4.13.2.2 ChangeSmartArtLayoutResponse 97](#_Toc24518402)

[3.1.4.13.3 Complex Types 98](#_Toc24518403)

[3.1.4.13.4 Simple Types 98](#_Toc24518404)

[3.1.4.13.5 Attributes 98](#_Toc24518405)

[3.1.4.13.6 Groups 98](#_Toc24518406)

[3.1.4.13.7 Attribute Groups 98](#_Toc24518407)

[3.1.4.14 ChangeSmartArtStyle 98](#_Toc24518408)

[3.1.4.14.1 Messages 99](#_Toc24518409)

[3.1.4.14.1.1 IPptEdit\_ChangeSmartArtStyle\_InputMessage 99](#_Toc24518410)

[3.1.4.14.1.2 IPptEdit\_ChangeSmartArtStyle\_OutputMessage 99](#_Toc24518411)

[3.1.4.14.2 Elements 99](#_Toc24518412)

[3.1.4.14.2.1 ChangeSmartArtStyle 99](#_Toc24518413)

[3.1.4.14.2.2 ChangeSmartArtStyleResponse 100](#_Toc24518414)

[3.1.4.14.3 Complex Types 100](#_Toc24518415)

[3.1.4.14.4 Simple Types 100](#_Toc24518416)

[3.1.4.14.5 Attributes 100](#_Toc24518417)

[3.1.4.14.6 Groups 100](#_Toc24518418)

[3.1.4.14.7 Attribute Groups 100](#_Toc24518419)

[3.1.4.15 ClearPlaceholder 101](#_Toc24518420)

[3.1.4.15.1 Messages 101](#_Toc24518421)

[3.1.4.15.1.1 IPptEdit\_ClearPlaceholder\_InputMessage 101](#_Toc24518422)

[3.1.4.15.1.2 IPptEdit\_ClearPlaceholder\_OutputMessage 101](#_Toc24518423)

[3.1.4.15.2 Elements 101](#_Toc24518424)

[3.1.4.15.2.1 ClearPlaceholder 102](#_Toc24518425)

[3.1.4.15.2.2 ClearPlaceholderResponse 102](#_Toc24518426)

[3.1.4.15.3 Complex Types 102](#_Toc24518427)

[3.1.4.15.4 Simple Types 102](#_Toc24518428)

[3.1.4.15.5 Attributes 102](#_Toc24518429)

[3.1.4.15.6 Groups 103](#_Toc24518430)

[3.1.4.15.7 Attribute Groups 103](#_Toc24518431)

[3.1.4.16 DeleteComment 103](#_Toc24518432)

[3.1.4.16.1 Messages 103](#_Toc24518433)

[3.1.4.16.1.1 IPptEdit\_DeleteComment\_InputMessage 103](#_Toc24518434)

[3.1.4.16.1.2 IPptEdit\_DeleteComment\_OutputMessage 104](#_Toc24518435)

[3.1.4.16.2 Elements 104](#_Toc24518436)

[3.1.4.16.2.1 DeleteComment 104](#_Toc24518437)

[3.1.4.16.2.2 DeleteCommentResponse 104](#_Toc24518438)

[3.1.4.16.3 Complex Types 105](#_Toc24518439)

[3.1.4.16.4 Simple Types 105](#_Toc24518440)

[3.1.4.16.5 Attributes 105](#_Toc24518441)

[3.1.4.16.6 Groups 105](#_Toc24518442)

[3.1.4.16.7 Attribute Groups 105](#_Toc24518443)

[3.1.4.17 DeleteSlide 105](#_Toc24518444)

[3.1.4.17.1 Messages 105](#_Toc24518445)

[3.1.4.17.1.1 IPptEdit\_DeleteSlide\_InputMessage 105](#_Toc24518446)

[3.1.4.17.1.2 IPptEdit\_DeleteSlide\_OutputMessage 106](#_Toc24518447)

[3.1.4.17.2 Elements 106](#_Toc24518448)

[3.1.4.17.2.1 DeleteSlide 106](#_Toc24518449)

[3.1.4.17.2.2 DeleteSlideResponse 106](#_Toc24518450)

[3.1.4.17.3 Complex Types 107](#_Toc24518451)

[3.1.4.17.4 Simple Types 107](#_Toc24518452)

[3.1.4.17.5 Attributes 107](#_Toc24518453)

[3.1.4.17.6 Groups 107](#_Toc24518454)

[3.1.4.17.7 Attribute Groups 107](#_Toc24518455)

[3.1.4.18 DuplicateShape 107](#_Toc24518456)

[3.1.4.18.1 Messages 107](#_Toc24518457)

[3.1.4.18.1.1 IPptEdit\_DuplicateShape\_InputMessage 108](#_Toc24518458)

[3.1.4.18.1.2 IPptEdit\_DuplicateShape\_OutputMessage 108](#_Toc24518459)

[3.1.4.18.2 Elements 108](#_Toc24518460)

[3.1.4.18.2.1 DuplicateShape 108](#_Toc24518461)

[3.1.4.18.2.2 DuplicateShapeResponse 109](#_Toc24518462)

[3.1.4.18.3 Complex Types 109](#_Toc24518463)

[3.1.4.18.4 Simple Types 109](#_Toc24518464)

[3.1.4.18.5 Attributes 109](#_Toc24518465)

[3.1.4.18.6 Groups 109](#_Toc24518466)

[3.1.4.18.7 Attribute Groups 109](#_Toc24518467)

[3.1.4.19 DuplicateSlide 110](#_Toc24518468)

[3.1.4.19.1 Messages 110](#_Toc24518469)

[3.1.4.19.1.1 IPptEdit\_DuplicateSlide\_InputMessage 110](#_Toc24518470)

[3.1.4.19.1.2 IPptEdit\_DuplicateSlide\_OutputMessage 110](#_Toc24518471)

[3.1.4.19.2 Elements 110](#_Toc24518472)

[3.1.4.19.2.1 DuplicateSlide 111](#_Toc24518473)

[3.1.4.19.2.2 DuplicateSlideResponse 111](#_Toc24518474)

[3.1.4.19.3 Complex Types 111](#_Toc24518475)

[3.1.4.19.4 Simple Types 111](#_Toc24518476)

[3.1.4.19.5 Attributes 111](#_Toc24518477)

[3.1.4.19.6 Groups 112](#_Toc24518478)

[3.1.4.19.7 Attribute Groups 112](#_Toc24518479)

[3.1.4.20 EditComment 112](#_Toc24518480)

[3.1.4.20.1 Messages 112](#_Toc24518481)

[3.1.4.20.1.1 IPptEdit\_EditComment\_InputMessage 112](#_Toc24518482)

[3.1.4.20.1.2 IPptEdit\_EditComment\_OutputMessage 113](#_Toc24518483)

[3.1.4.20.2 Elements 113](#_Toc24518484)

[3.1.4.20.2.1 EditComment 113](#_Toc24518485)

[3.1.4.20.2.2 EditCommentResponse 113](#_Toc24518486)

[3.1.4.20.3 Complex Types 114](#_Toc24518487)

[3.1.4.20.4 Simple Types 114](#_Toc24518488)

[3.1.4.20.5 Attributes 114](#_Toc24518489)

[3.1.4.20.6 Groups 114](#_Toc24518490)

[3.1.4.20.7 Attribute Groups 114](#_Toc24518491)

[3.1.4.21 FlipShape 114](#_Toc24518492)

[3.1.4.21.1 Messages 114](#_Toc24518493)

[3.1.4.21.1.1 IPptEdit\_FlipShape\_InputMessage 115](#_Toc24518494)

[3.1.4.21.1.2 IPptEdit\_FlipShape\_OutputMessage 115](#_Toc24518495)

[3.1.4.21.2 Elements 115](#_Toc24518496)

[3.1.4.21.2.1 FlipShape 115](#_Toc24518497)

[3.1.4.21.2.2 FlipShapeResponse 116](#_Toc24518498)

[3.1.4.21.3 Complex Types 116](#_Toc24518499)

[3.1.4.21.4 Simple Types 116](#_Toc24518500)

[3.1.4.21.5 Attributes 116](#_Toc24518501)

[3.1.4.21.6 Groups 116](#_Toc24518502)

[3.1.4.21.7 Attribute Groups 116](#_Toc24518503)

[3.1.4.22 GetCoauthUpdates 116](#_Toc24518504)

[3.1.4.22.1 Messages 117](#_Toc24518505)

[3.1.4.22.1.1 IPptEdit\_GetCoauthUpdates\_InputMessage 117](#_Toc24518506)

[3.1.4.22.1.2 IPptEdit\_GetCoauthUpdates\_OutputMessage 117](#_Toc24518507)

[3.1.4.22.2 Elements 117](#_Toc24518508)

[3.1.4.22.2.1 GetCoauthUpdates 118](#_Toc24518509)

[3.1.4.22.2.2 GetCoauthUpdatesResponse 118](#_Toc24518510)

[3.1.4.22.3 Complex Types 118](#_Toc24518511)

[3.1.4.22.4 Simple Types 118](#_Toc24518512)

[3.1.4.22.5 Attributes 118](#_Toc24518513)

[3.1.4.22.6 Groups 118](#_Toc24518514)

[3.1.4.22.7 Attribute Groups 118](#_Toc24518515)

[3.1.4.23 GetEditPresInfo 119](#_Toc24518516)

[3.1.4.23.1 Messages 119](#_Toc24518517)

[3.1.4.23.1.1 IPptEdit\_GetEditPresInfo\_InputMessage 119](#_Toc24518518)

[3.1.4.23.1.2 IPptEdit\_GetEditPresInfo\_OutputMessage 119](#_Toc24518519)

[3.1.4.23.2 Elements 119](#_Toc24518520)

[3.1.4.23.2.1 GetEditPresInfo 120](#_Toc24518521)

[3.1.4.23.2.2 GetEditPresInfoResponse 120](#_Toc24518522)

[3.1.4.23.3 Complex Types 121](#_Toc24518523)

[3.1.4.23.4 Simple Types 121](#_Toc24518524)

[3.1.4.23.5 Attributes 121](#_Toc24518525)

[3.1.4.23.6 Groups 121](#_Toc24518526)

[3.1.4.23.7 Attribute Groups 121](#_Toc24518527)

[3.1.4.24 GetEditPresInfoGetEditSlideById 121](#_Toc24518528)

[3.1.4.24.1 Messages 121](#_Toc24518529)

[3.1.4.24.1.1 IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage 122](#_Toc24518530)

[3.1.4.24.1.2 IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage 122](#_Toc24518531)

[3.1.4.24.2 Elements 122](#_Toc24518532)

[3.1.4.24.2.1 GetEditPresInfoGetEditSlideById 122](#_Toc24518533)

[3.1.4.24.2.2 GetEditPresInfoGetEditSlideByIdResponse 123](#_Toc24518534)

[3.1.4.24.3 Complex Types 123](#_Toc24518535)

[3.1.4.24.4 Simple Types 123](#_Toc24518536)

[3.1.4.24.5 Attributes 123](#_Toc24518537)

[3.1.4.24.6 Groups 123](#_Toc24518538)

[3.1.4.24.7 Attribute Groups 123](#_Toc24518539)

[3.1.4.25 GetEditPresResources 124](#_Toc24518540)

[3.1.4.25.1 Messages 124](#_Toc24518541)

[3.1.4.25.1.1 IPptEdit\_GetEditPresResources\_InputMessage 124](#_Toc24518542)

[3.1.4.25.1.2 IPptEdit\_GetEditPresResources\_OutputMessage 124](#_Toc24518543)

[3.1.4.25.2 Elements 124](#_Toc24518544)

[3.1.4.25.2.1 GetEditPresResources 125](#_Toc24518545)

[3.1.4.25.2.2 GetEditPresResourcesResponse 125](#_Toc24518546)

[3.1.4.25.3 Complex Types 125](#_Toc24518547)

[3.1.4.25.4 Simple Types 125](#_Toc24518548)

[3.1.4.25.5 Attributes 125](#_Toc24518549)

[3.1.4.25.6 Groups 125](#_Toc24518550)

[3.1.4.25.7 Attribute Groups 125](#_Toc24518551)

[3.1.4.26 GetEditSlide 126](#_Toc24518552)

[3.1.4.26.1 Messages 126](#_Toc24518553)

[3.1.4.26.1.1 IPptEdit\_GetEditSlide\_InputMessage 126](#_Toc24518554)

[3.1.4.26.1.2 IPptEdit\_GetEditSlide\_OutputMessage 126](#_Toc24518555)

[3.1.4.26.2 Elements 126](#_Toc24518556)

[3.1.4.26.2.1 GetEditSlide 127](#_Toc24518557)

[3.1.4.26.2.2 GetEditSlideResponse 127](#_Toc24518558)

[3.1.4.26.3 Complex Types 127](#_Toc24518559)

[3.1.4.26.4 Simple Types 127](#_Toc24518560)

[3.1.4.26.5 Attributes 127](#_Toc24518561)

[3.1.4.26.6 Groups 127](#_Toc24518562)

[3.1.4.26.7 Attribute Groups 128](#_Toc24518563)

[3.1.4.27 GetPresentationId 128](#_Toc24518564)

[3.1.4.27.1 Messages 128](#_Toc24518565)

[3.1.4.27.1.1 IPptEdit\_GetPresentationId\_InputMessage 128](#_Toc24518566)

[3.1.4.27.1.2 IPptEdit\_GetPresentationId\_OutputMessage 128](#_Toc24518567)

[3.1.4.27.2 Elements 129](#_Toc24518568)

[3.1.4.27.2.1 GetPresentationId 129](#_Toc24518569)

[3.1.4.27.2.2 GetPresentationIdResponse 129](#_Toc24518570)

[3.1.4.27.3 Complex Types 129](#_Toc24518571)

[3.1.4.27.4 Simple Types 129](#_Toc24518572)

[3.1.4.27.5 Attributes 129](#_Toc24518573)

[3.1.4.27.6 Groups 130](#_Toc24518574)

[3.1.4.27.7 Attribute Groups 130](#_Toc24518575)

[3.1.4.28 InsertClipart 130](#_Toc24518576)

[3.1.4.28.1 Messages 130](#_Toc24518577)

[3.1.4.28.1.1 IPptEdit\_InsertClipart\_InputMessage 130](#_Toc24518578)

[3.1.4.28.1.2 IPptEdit\_InsertClipart\_OutputMessage 131](#_Toc24518579)

[3.1.4.28.2 Elements 131](#_Toc24518580)

[3.1.4.28.2.1 InsertClipart 131](#_Toc24518581)

[3.1.4.28.2.2 InsertClipartResponse 131](#_Toc24518582)

[3.1.4.28.3 Complex Types 132](#_Toc24518583)

[3.1.4.28.4 Simple Types 132](#_Toc24518584)

[3.1.4.28.5 Attributes 132](#_Toc24518585)

[3.1.4.28.6 Groups 132](#_Toc24518586)

[3.1.4.28.7 Attribute Groups 132](#_Toc24518587)

[3.1.4.29 InsertShape 132](#_Toc24518588)

[3.1.4.29.1 Messages 132](#_Toc24518589)

[3.1.4.29.1.1 IPptEdit\_InsertShape\_InputMessage 133](#_Toc24518590)

[3.1.4.29.1.2 IPptEdit\_InsertShape\_OutputMessage 133](#_Toc24518591)

[3.1.4.29.2 Elements 133](#_Toc24518592)

[3.1.4.29.2.1 InsertShape 133](#_Toc24518593)

[3.1.4.29.2.2 InsertShapeResponse 134](#_Toc24518594)

[3.1.4.29.3 Complex Types 134](#_Toc24518595)

[3.1.4.29.4 Simple Types 134](#_Toc24518596)

[3.1.4.29.5 Attributes 134](#_Toc24518597)

[3.1.4.29.6 Groups 134](#_Toc24518598)

[3.1.4.29.7 Attribute Groups 134](#_Toc24518599)

[3.1.4.30 InsertSlide 135](#_Toc24518600)

[3.1.4.30.1 Messages 135](#_Toc24518601)

[3.1.4.30.1.1 IPptEdit\_InsertSlide\_InputMessage 135](#_Toc24518602)

[3.1.4.30.1.2 IPptEdit\_InsertSlide\_OutputMessage 135](#_Toc24518603)

[3.1.4.30.2 Elements 135](#_Toc24518604)

[3.1.4.30.2.1 InsertSlide 136](#_Toc24518605)

[3.1.4.30.2.2 InsertSlideResponse 136](#_Toc24518606)

[3.1.4.30.3 Complex Types 136](#_Toc24518607)

[3.1.4.30.4 Simple Types 137](#_Toc24518608)

[3.1.4.30.5 Attributes 137](#_Toc24518609)

[3.1.4.30.6 Groups 137](#_Toc24518610)

[3.1.4.30.7 Attribute Groups 137](#_Toc24518611)

[3.1.4.31 InsertSmartArt 137](#_Toc24518612)

[3.1.4.31.1 Messages 137](#_Toc24518613)

[3.1.4.31.1.1 IPptEdit\_InsertSmartArt\_InputMessage 137](#_Toc24518614)

[3.1.4.31.1.2 IPptEdit\_InsertSmartArt\_OutputMessage 138](#_Toc24518615)

[3.1.4.31.2 Elements 138](#_Toc24518616)

[3.1.4.31.2.1 InsertSmartArt 138](#_Toc24518617)

[3.1.4.31.2.2 InsertSmartArtResponse 138](#_Toc24518618)

[3.1.4.31.3 Complex Types 139](#_Toc24518619)

[3.1.4.31.4 Simple Types 139](#_Toc24518620)

[3.1.4.31.5 Attributes 139](#_Toc24518621)

[3.1.4.31.6 Groups 139](#_Toc24518622)

[3.1.4.31.7 Attribute Groups 139](#_Toc24518623)

[3.1.4.32 LogULS 139](#_Toc24518624)

[3.1.4.32.1 Messages 139](#_Toc24518625)

[3.1.4.32.1.1 IPptEdit\_LogULS\_InputMessage 140](#_Toc24518626)

[3.1.4.32.1.2 IPptEdit\_LogULS\_OutputMessage 140](#_Toc24518627)

[3.1.4.32.2 Elements 140](#_Toc24518628)

[3.1.4.32.2.1 LogULS 140](#_Toc24518629)

[3.1.4.32.2.2 LogULSResponse 141](#_Toc24518630)

[3.1.4.32.3 Complex Types 141](#_Toc24518631)

[3.1.4.32.4 Simple Types 141](#_Toc24518632)

[3.1.4.32.5 Attributes 141](#_Toc24518633)

[3.1.4.32.6 Groups 141](#_Toc24518634)

[3.1.4.32.7 Attribute Groups 141](#_Toc24518635)

[3.1.4.33 MoveComment 141](#_Toc24518636)

[3.1.4.33.1 Messages 141](#_Toc24518637)

[3.1.4.33.1.1 IPptEdit\_MoveComment\_InputMessage 142](#_Toc24518638)

[3.1.4.33.1.2 IPptEdit\_MoveComment\_OutputMessage 142](#_Toc24518639)

[3.1.4.33.2 Elements 142](#_Toc24518640)

[3.1.4.33.2.1 MoveComment 142](#_Toc24518641)

[3.1.4.33.2.2 MoveCommentResponse 143](#_Toc24518642)

[3.1.4.33.3 Complex Types 143](#_Toc24518643)

[3.1.4.33.4 Simple Types 143](#_Toc24518644)

[3.1.4.33.5 Attributes 143](#_Toc24518645)

[3.1.4.33.6 Groups 143](#_Toc24518646)

[3.1.4.33.7 Attribute Groups 143](#_Toc24518647)

[3.1.4.34 MoveShape 144](#_Toc24518648)

[3.1.4.34.1 Messages 144](#_Toc24518649)

[3.1.4.34.1.1 IPptEdit\_MoveShape\_InputMessage 144](#_Toc24518650)

[3.1.4.34.1.2 IPptEdit\_MoveShape\_OutputMessage 144](#_Toc24518651)

[3.1.4.34.2 Elements 144](#_Toc24518652)

[3.1.4.34.2.1 MoveShape 145](#_Toc24518653)

[3.1.4.34.2.2 MoveShapeResponse 145](#_Toc24518654)

[3.1.4.34.3 Complex Types 145](#_Toc24518655)

[3.1.4.34.4 Simple Types 145](#_Toc24518656)

[3.1.4.34.5 Attributes 146](#_Toc24518657)

[3.1.4.34.6 Groups 146](#_Toc24518658)

[3.1.4.34.7 Attribute Groups 146](#_Toc24518659)

[3.1.4.35 MoveSlide 146](#_Toc24518660)

[3.1.4.35.1 Messages 146](#_Toc24518661)

[3.1.4.35.1.1 IPptEdit\_MoveSlide\_InputMessage 146](#_Toc24518662)

[3.1.4.35.1.2 IPptEdit\_MoveSlide\_OutputMessage 147](#_Toc24518663)

[3.1.4.35.2 Elements 147](#_Toc24518664)

[3.1.4.35.2.1 MoveSlide 147](#_Toc24518665)

[3.1.4.35.2.2 MoveSlideResponse 147](#_Toc24518666)

[3.1.4.35.3 Complex Types 148](#_Toc24518667)

[3.1.4.35.4 Simple Types 148](#_Toc24518668)

[3.1.4.35.5 Attributes 148](#_Toc24518669)

[3.1.4.35.6 Groups 148](#_Toc24518670)

[3.1.4.35.7 Attribute Groups 148](#_Toc24518671)

[3.1.4.36 PastePicture 148](#_Toc24518672)

[3.1.4.36.1 Messages 148](#_Toc24518673)

[3.1.4.36.1.1 IPptEdit\_PastePicture\_InputMessage 149](#_Toc24518674)

[3.1.4.36.1.2 IPptEdit\_PastePicture\_OutputMessage 149](#_Toc24518675)

[3.1.4.36.2 Elements 149](#_Toc24518676)

[3.1.4.36.2.1 PastePicture 149](#_Toc24518677)

[3.1.4.36.2.2 PastePictureResponse 150](#_Toc24518678)

[3.1.4.36.3 Complex Types 150](#_Toc24518679)

[3.1.4.36.4 Simple Types 150](#_Toc24518680)

[3.1.4.36.5 Attributes 150](#_Toc24518681)

[3.1.4.36.6 Groups 150](#_Toc24518682)

[3.1.4.36.7 Attribute Groups 150](#_Toc24518683)

[3.1.4.37 Print 150](#_Toc24518684)

[3.1.4.37.1 Messages 150](#_Toc24518685)

[3.1.4.37.1.1 IPptEdit\_Print\_InputMessage 151](#_Toc24518686)

[3.1.4.37.1.2 IPptEdit\_Print\_OutputMessage 151](#_Toc24518687)

[3.1.4.37.2 Elements 151](#_Toc24518688)

[3.1.4.37.2.1 Print 151](#_Toc24518689)

[3.1.4.37.2.2 PrintResponse 151](#_Toc24518690)

[3.1.4.37.3 Complex Types 152](#_Toc24518691)

[3.1.4.37.4 Simple Types 152](#_Toc24518692)

[3.1.4.37.5 Attributes 152](#_Toc24518693)

[3.1.4.37.6 Groups 152](#_Toc24518694)

[3.1.4.37.7 Attribute Groups 152](#_Toc24518695)

[3.1.4.38 Redo 152](#_Toc24518696)

[3.1.4.38.1 Messages 152](#_Toc24518697)

[3.1.4.38.1.1 IPptEdit\_Redo\_InputMessage 153](#_Toc24518698)

[3.1.4.38.1.2 IPptEdit\_Redo\_OutputMessage 153](#_Toc24518699)

[3.1.4.38.2 Elements 153](#_Toc24518700)

[3.1.4.38.2.1 Redo 153](#_Toc24518701)

[3.1.4.38.2.2 RedoResponse 153](#_Toc24518702)

[3.1.4.38.3 Complex Types 154](#_Toc24518703)

[3.1.4.38.4 Simple Types 154](#_Toc24518704)

[3.1.4.38.5 Attributes 154](#_Toc24518705)

[3.1.4.38.6 Groups 154](#_Toc24518706)

[3.1.4.38.7 Attribute Groups 154](#_Toc24518707)

[3.1.4.39 RemoveShapeFill 154](#_Toc24518708)

[3.1.4.39.1 Messages 154](#_Toc24518709)

[3.1.4.39.1.1 IPptEdit\_RemoveShapeFill\_InputMessage 155](#_Toc24518710)

[3.1.4.39.1.2 IPptEdit\_RemoveShapeFill\_OutputMessage 155](#_Toc24518711)

[3.1.4.39.2 Elements 155](#_Toc24518712)

[3.1.4.39.2.1 RemoveShapeFill 155](#_Toc24518713)

[3.1.4.39.2.2 RemoveShapeFillResponse 156](#_Toc24518714)

[3.1.4.39.3 Complex Types 156](#_Toc24518715)

[3.1.4.39.4 Simple Types 156](#_Toc24518716)

[3.1.4.39.5 Attributes 156](#_Toc24518717)

[3.1.4.39.6 Groups 156](#_Toc24518718)

[3.1.4.39.7 Attribute Groups 156](#_Toc24518719)

[3.1.4.40 RemoveShapeOutline 156](#_Toc24518720)

[3.1.4.40.1 Messages 157](#_Toc24518721)

[3.1.4.40.1.1 IPptEdit\_RemoveShapeOutline\_InputMessage 157](#_Toc24518722)

[3.1.4.40.1.2 IPptEdit\_RemoveShapeOutline\_OutputMessage 157](#_Toc24518723)

[3.1.4.40.2 Elements 157](#_Toc24518724)

[3.1.4.40.2.1 RemoveShapeOutline 158](#_Toc24518725)

[3.1.4.40.2.2 RemoveShapeOutlineResponse 158](#_Toc24518726)

[3.1.4.40.3 Complex Types 158](#_Toc24518727)

[3.1.4.40.4 Simple Types 158](#_Toc24518728)

[3.1.4.40.5 Attributes 158](#_Toc24518729)

[3.1.4.40.6 Groups 158](#_Toc24518730)

[3.1.4.40.7 Attribute Groups 159](#_Toc24518731)

[3.1.4.41 ReorderAnimation 159](#_Toc24518732)

[3.1.4.41.1 Messages 159](#_Toc24518733)

[3.1.4.41.1.1 IPptEdit\_ReorderAnimation\_InputMessage 159](#_Toc24518734)

[3.1.4.41.1.2 IPptEdit\_ReorderAnimation\_OutputMessage 159](#_Toc24518735)

[3.1.4.41.2 Elements 160](#_Toc24518736)

[3.1.4.41.2.1 ReorderAnimation 160](#_Toc24518737)

[3.1.4.41.2.2 ReorderAnimationResponse 160](#_Toc24518738)

[3.1.4.41.3 Complex Types 161](#_Toc24518739)

[3.1.4.41.4 Simple Types 161](#_Toc24518740)

[3.1.4.41.5 Attributes 161](#_Toc24518741)

[3.1.4.41.6 Groups 161](#_Toc24518742)

[3.1.4.41.7 Attribute Groups 161](#_Toc24518743)

[3.1.4.42 ReplaceNotes 161](#_Toc24518744)

[3.1.4.42.1 Messages 161](#_Toc24518745)

[3.1.4.42.1.1 IPptEdit\_ReplaceNotes\_InputMessage 162](#_Toc24518746)

[3.1.4.42.1.2 IPptEdit\_ReplaceNotes\_OutputMessage 162](#_Toc24518747)

[3.1.4.42.2 Elements 162](#_Toc24518748)

[3.1.4.42.2.1 ReplaceNotes 162](#_Toc24518749)

[3.1.4.42.2.2 ReplaceNotesResponse 162](#_Toc24518750)

[3.1.4.42.3 Complex Types 163](#_Toc24518751)

[3.1.4.42.4 Simple Types 163](#_Toc24518752)

[3.1.4.42.5 Attributes 163](#_Toc24518753)

[3.1.4.42.6 Groups 163](#_Toc24518754)

[3.1.4.42.7 Attribute Groups 163](#_Toc24518755)

[3.1.4.43 ReplaceText 163](#_Toc24518756)

[3.1.4.43.1 Messages 163](#_Toc24518757)

[3.1.4.43.1.1 IPptEdit\_ReplaceText\_InputMessage 164](#_Toc24518758)

[3.1.4.43.1.2 IPptEdit\_ReplaceText\_OutputMessage 164](#_Toc24518759)

[3.1.4.43.2 Elements 164](#_Toc24518760)

[3.1.4.43.2.1 ReplaceText 164](#_Toc24518761)

[3.1.4.43.2.2 ReplaceTextResponse 165](#_Toc24518762)

[3.1.4.43.3 Complex Types 165](#_Toc24518763)

[3.1.4.43.4 Simple Types 165](#_Toc24518764)

[3.1.4.43.5 Attributes 165](#_Toc24518765)

[3.1.4.43.6 Groups 165](#_Toc24518766)

[3.1.4.43.7 Attribute Groups 165](#_Toc24518767)

[3.1.4.44 ResetPicture 165](#_Toc24518768)

[3.1.4.44.1 Messages 166](#_Toc24518769)

[3.1.4.44.1.1 IPptEdit\_ResetPicture\_InputMessage 166](#_Toc24518770)

[3.1.4.44.1.2 IPptEdit\_ResetPicture\_OutputMessage 166](#_Toc24518771)

[3.1.4.44.2 Elements 166](#_Toc24518772)

[3.1.4.44.2.1 ResetPicture 166](#_Toc24518773)

[3.1.4.44.2.2 ResetPictureResponse 167](#_Toc24518774)

[3.1.4.44.3 Complex Types 167](#_Toc24518775)

[3.1.4.44.4 Simple Types 167](#_Toc24518776)

[3.1.4.44.5 Attributes 167](#_Toc24518777)

[3.1.4.44.6 Groups 167](#_Toc24518778)

[3.1.4.44.7 Attribute Groups 167](#_Toc24518779)

[3.1.4.45 ResetSmartArt 168](#_Toc24518780)

[3.1.4.45.1 Messages 168](#_Toc24518781)

[3.1.4.45.1.1 IPptEdit\_ResetSmartArt\_InputMessage 168](#_Toc24518782)

[3.1.4.45.1.2 IPptEdit\_ResetSmartArt\_OutputMessage 168](#_Toc24518783)

[3.1.4.45.2 Elements 168](#_Toc24518784)

[3.1.4.45.2.1 ResetSmartArt 169](#_Toc24518785)

[3.1.4.45.2.2 ResetSmartArtResponse 169](#_Toc24518786)

[3.1.4.45.3 Complex Types 169](#_Toc24518787)

[3.1.4.45.4 Simple Types 169](#_Toc24518788)

[3.1.4.45.5 Attributes 170](#_Toc24518789)

[3.1.4.45.6 Groups 170](#_Toc24518790)

[3.1.4.45.7 Attribute Groups 170](#_Toc24518791)

[3.1.4.46 ResizeShape 170](#_Toc24518792)

[3.1.4.46.1 Messages 170](#_Toc24518793)

[3.1.4.46.1.1 IPptEdit\_ResizeShape\_InputMessage 170](#_Toc24518794)

[3.1.4.46.1.2 IPptEdit\_ResizeShape\_OutputMessage 171](#_Toc24518795)

[3.1.4.46.2 Elements 171](#_Toc24518796)

[3.1.4.46.2.1 ResizeShape 171](#_Toc24518797)

[3.1.4.46.2.2 ResizeShapeResponse 172](#_Toc24518798)

[3.1.4.46.3 Complex Types 172](#_Toc24518799)

[3.1.4.46.4 Simple Types 172](#_Toc24518800)

[3.1.4.46.5 Attributes 172](#_Toc24518801)

[3.1.4.46.6 Groups 172](#_Toc24518802)

[3.1.4.46.7 Attribute Groups 172](#_Toc24518803)

[3.1.4.47 ReverseSmartArt 172](#_Toc24518804)

[3.1.4.47.1 Messages 173](#_Toc24518805)

[3.1.4.47.1.1 IPptEdit\_ReverseSmartArt\_InputMessage 173](#_Toc24518806)

[3.1.4.47.1.2 IPptEdit\_ReverseSmartArt\_OutputMessage 173](#_Toc24518807)

[3.1.4.47.2 Elements 173](#_Toc24518808)

[3.1.4.47.2.1 ReverseSmartArt 173](#_Toc24518809)

[3.1.4.47.2.2 ReverseSmartArtResponse 174](#_Toc24518810)

[3.1.4.47.3 Complex Types 174](#_Toc24518811)

[3.1.4.47.4 Simple Types 174](#_Toc24518812)

[3.1.4.47.5 Attributes 174](#_Toc24518813)

[3.1.4.47.6 Groups 174](#_Toc24518814)

[3.1.4.47.7 Attribute Groups 174](#_Toc24518815)

[3.1.4.48 RotateShape 175](#_Toc24518816)

[3.1.4.48.1 Messages 175](#_Toc24518817)

[3.1.4.48.1.1 IPptEdit\_RotateShape\_InputMessage 175](#_Toc24518818)

[3.1.4.48.1.2 IPptEdit\_RotateShape\_OutputMessage 175](#_Toc24518819)

[3.1.4.48.2 Elements 175](#_Toc24518820)

[3.1.4.48.2.1 RotateShape 176](#_Toc24518821)

[3.1.4.48.2.2 RotateShapeResponse 176](#_Toc24518822)

[3.1.4.48.3 Complex Types 176](#_Toc24518823)

[3.1.4.48.4 Simple Types 176](#_Toc24518824)

[3.1.4.48.5 Attributes 177](#_Toc24518825)

[3.1.4.48.6 Groups 177](#_Toc24518826)

[3.1.4.48.7 Attribute Groups 177](#_Toc24518827)

[3.1.4.49 SaveAndClose 177](#_Toc24518828)

[3.1.4.49.1 Messages 177](#_Toc24518829)

[3.1.4.49.1.1 IPptEdit\_SaveAndClose\_InputMessage 177](#_Toc24518830)

[3.1.4.49.1.2 IPptEdit\_SaveAndClose\_OutputMessage 178](#_Toc24518831)

[3.1.4.49.2 Elements 178](#_Toc24518832)

[3.1.4.49.2.1 SaveAndClose 178](#_Toc24518833)

[3.1.4.49.2.2 SaveAndCloseResponse 178](#_Toc24518834)

[3.1.4.49.3 Complex Types 179](#_Toc24518835)

[3.1.4.49.4 Simple Types 179](#_Toc24518836)

[3.1.4.49.5 Attributes 179](#_Toc24518837)

[3.1.4.49.6 Groups 179](#_Toc24518838)

[3.1.4.49.7 Attribute Groups 179](#_Toc24518839)

[3.1.4.50 SetAnimation 179](#_Toc24518840)

[3.1.4.50.1 Messages 179](#_Toc24518841)

[3.1.4.50.1.1 IPptEdit\_SetAnimation\_InputMessage 180](#_Toc24518842)

[3.1.4.50.1.2 IPptEdit\_SetAnimation\_OutputMessage 180](#_Toc24518843)

[3.1.4.50.2 Elements 180](#_Toc24518844)

[3.1.4.50.2.1 SetAnimation 180](#_Toc24518845)

[3.1.4.50.2.2 SetAnimationResponse 181](#_Toc24518846)

[3.1.4.50.3 Complex Types 182](#_Toc24518847)

[3.1.4.50.4 Simple Types 182](#_Toc24518848)

[3.1.4.50.5 Attributes 182](#_Toc24518849)

[3.1.4.50.6 Groups 182](#_Toc24518850)

[3.1.4.50.7 Attribute Groups 182](#_Toc24518851)

[3.1.4.51 SetShapeAlignment 182](#_Toc24518852)

[3.1.4.51.1 Messages 182](#_Toc24518853)

[3.1.4.51.1.1 IPptEdit\_SetShapeAlignment\_InputMessage 183](#_Toc24518854)

[3.1.4.51.1.2 IPptEdit\_SetShapeAlignment\_OutputMessage 183](#_Toc24518855)

[3.1.4.51.2 Elements 183](#_Toc24518856)

[3.1.4.51.2.1 SetShapeAlignment 183](#_Toc24518857)

[3.1.4.51.2.2 SetShapeAlignmentResponse 184](#_Toc24518858)

[3.1.4.51.3 Complex Types 184](#_Toc24518859)

[3.1.4.51.4 Simple Types 184](#_Toc24518860)

[3.1.4.51.5 Attributes 184](#_Toc24518861)

[3.1.4.51.6 Groups 184](#_Toc24518862)

[3.1.4.51.7 Attribute Groups 184](#_Toc24518863)

[3.1.4.52 SetShapeBold 185](#_Toc24518864)

[3.1.4.52.1 Messages 185](#_Toc24518865)

[3.1.4.52.1.1 IPptEdit\_SetShapeBold\_InputMessage 185](#_Toc24518866)

[3.1.4.52.1.2 IPptEdit\_SetShapeBold\_OutputMessage 185](#_Toc24518867)

[3.1.4.52.2 Elements 185](#_Toc24518868)

[3.1.4.52.2.1 SetShapeBold 186](#_Toc24518869)

[3.1.4.52.2.2 SetShapeBoldResponse 186](#_Toc24518870)

[3.1.4.52.3 Complex Types 186](#_Toc24518871)

[3.1.4.52.4 Simple Types 186](#_Toc24518872)

[3.1.4.52.5 Attributes 187](#_Toc24518873)

[3.1.4.52.6 Groups 187](#_Toc24518874)

[3.1.4.52.7 Attribute Groups 187](#_Toc24518875)

[3.1.4.53 SetShapeBullet 187](#_Toc24518876)

[3.1.4.53.1 Messages 187](#_Toc24518877)

[3.1.4.53.1.1 IPptEdit\_SetShapeBullet\_InputMessage 187](#_Toc24518878)

[3.1.4.53.1.2 IPptEdit\_SetShapeBullet\_OutputMessage 188](#_Toc24518879)

[3.1.4.53.2 Elements 188](#_Toc24518880)

[3.1.4.53.2.1 SetShapeBullet 188](#_Toc24518881)

[3.1.4.53.2.2 SetShapeBulletResponse 188](#_Toc24518882)

[3.1.4.53.3 Complex Types 189](#_Toc24518883)

[3.1.4.53.4 Simple Types 189](#_Toc24518884)

[3.1.4.53.5 Attributes 189](#_Toc24518885)

[3.1.4.53.6 Groups 189](#_Toc24518886)

[3.1.4.53.7 Attribute Groups 189](#_Toc24518887)

[3.1.4.54 SetShapeFontColor 189](#_Toc24518888)

[3.1.4.54.1 Messages 190](#_Toc24518889)

[3.1.4.54.1.1 IPptEdit\_SetShapeFontColor\_InputMessage 190](#_Toc24518890)

[3.1.4.54.1.2 IPptEdit\_SetShapeFontColor\_OutputMessage 190](#_Toc24518891)

[3.1.4.54.2 Elements 190](#_Toc24518892)

[3.1.4.54.2.1 SetShapeFontColor 190](#_Toc24518893)

[3.1.4.54.2.2 SetShapeFontColorResponse 191](#_Toc24518894)

[3.1.4.54.3 Complex Types 191](#_Toc24518895)

[3.1.4.54.4 Simple Types 191](#_Toc24518896)

[3.1.4.54.5 Attributes 191](#_Toc24518897)

[3.1.4.54.6 Groups 191](#_Toc24518898)

[3.1.4.54.7 Attribute Groups 191](#_Toc24518899)

[3.1.4.55 SetShapeFontName 191](#_Toc24518900)

[3.1.4.55.1 Messages 192](#_Toc24518901)

[3.1.4.55.1.1 IPptEdit\_SetShapeFontName\_InputMessage 192](#_Toc24518902)

[3.1.4.55.1.2 IPptEdit\_SetShapeFontName\_OutputMessage 192](#_Toc24518903)

[3.1.4.55.2 Elements 192](#_Toc24518904)

[3.1.4.55.2.1 SetShapeFontName 193](#_Toc24518905)

[3.1.4.55.2.2 SetShapeFontNameResponse 193](#_Toc24518906)

[3.1.4.55.3 Complex Types 193](#_Toc24518907)

[3.1.4.55.4 Simple Types 193](#_Toc24518908)

[3.1.4.55.5 Attributes 194](#_Toc24518909)

[3.1.4.55.6 Groups 194](#_Toc24518910)

[3.1.4.55.7 Attribute Groups 194](#_Toc24518911)

[3.1.4.56 SetShapeFontSize 194](#_Toc24518912)

[3.1.4.56.1 Messages 194](#_Toc24518913)

[3.1.4.56.1.1 IPptEdit\_SetShapeFontSize\_InputMessage 194](#_Toc24518914)

[3.1.4.56.1.2 IPptEdit\_SetShapeFontSize\_OutputMessage 195](#_Toc24518915)

[3.1.4.56.2 Elements 195](#_Toc24518916)

[3.1.4.56.2.1 SetShapeFontSize 195](#_Toc24518917)

[3.1.4.56.2.2 SetShapeFontSizeResponse 195](#_Toc24518918)

[3.1.4.56.3 Complex Types 196](#_Toc24518919)

[3.1.4.56.4 Simple Types 196](#_Toc24518920)

[3.1.4.56.5 Attributes 196](#_Toc24518921)

[3.1.4.56.6 Groups 196](#_Toc24518922)

[3.1.4.56.7 Attribute Groups 196](#_Toc24518923)

[3.1.4.57 SetShapeItalic 196](#_Toc24518924)

[3.1.4.57.1 Messages 196](#_Toc24518925)

[3.1.4.57.1.1 IPptEdit\_SetShapeItalic\_InputMessage 197](#_Toc24518926)

[3.1.4.57.1.2 IPptEdit\_SetShapeItalic\_OutputMessage 197](#_Toc24518927)

[3.1.4.57.2 Elements 197](#_Toc24518928)

[3.1.4.57.2.1 SetShapeItalic 197](#_Toc24518929)

[3.1.4.57.2.2 SetShapeItalicResponse 198](#_Toc24518930)

[3.1.4.57.3 Complex Types 198](#_Toc24518931)

[3.1.4.57.4 Simple Types 198](#_Toc24518932)

[3.1.4.57.5 Attributes 198](#_Toc24518933)

[3.1.4.57.6 Groups 198](#_Toc24518934)

[3.1.4.57.7 Attribute Groups 198](#_Toc24518935)

[3.1.4.58 SetShapeTextDirection 198](#_Toc24518936)

[3.1.4.58.1 Messages 199](#_Toc24518937)

[3.1.4.58.1.1 IPptEdit\_SetShapeTextDirection\_InputMessage 199](#_Toc24518938)

[3.1.4.58.1.2 IPptEdit\_SetShapeTextDirection\_OutputMessage 199](#_Toc24518939)

[3.1.4.58.2 Elements 199](#_Toc24518940)

[3.1.4.58.2.1 SetShapeTextDirection 199](#_Toc24518941)

[3.1.4.58.2.2 SetShapeTextDirectionResponse 200](#_Toc24518942)

[3.1.4.58.3 Complex Types 200](#_Toc24518943)

[3.1.4.58.4 Simple Types 200](#_Toc24518944)

[3.1.4.58.5 Attributes 200](#_Toc24518945)

[3.1.4.58.6 Groups 201](#_Toc24518946)

[3.1.4.58.7 Attribute Groups 201](#_Toc24518947)

[3.1.4.59 SetShapeUnderline 201](#_Toc24518948)

[3.1.4.59.1 Messages 201](#_Toc24518949)

[3.1.4.59.1.1 IPptEdit\_SetShapeUnderline\_InputMessage 201](#_Toc24518950)

[3.1.4.59.1.2 IPptEdit\_SetShapeUnderline\_OutputMessage 202](#_Toc24518951)

[3.1.4.59.2 Elements 202](#_Toc24518952)

[3.1.4.59.2.1 SetShapeUnderline 202](#_Toc24518953)

[3.1.4.59.2.2 SetShapeUnderlineResponse 202](#_Toc24518954)

[3.1.4.59.3 Complex Types 203](#_Toc24518955)

[3.1.4.59.4 Simple Types 203](#_Toc24518956)

[3.1.4.59.5 Attributes 203](#_Toc24518957)

[3.1.4.59.6 Groups 203](#_Toc24518958)

[3.1.4.59.7 Attribute Groups 203](#_Toc24518959)

[3.1.4.60 SetTransition 203](#_Toc24518960)

[3.1.4.60.1 Messages 203](#_Toc24518961)

[3.1.4.60.1.1 IPptEdit\_SetTransition\_InputMessage 204](#_Toc24518962)

[3.1.4.60.1.2 IPptEdit\_SetTransition\_OutputMessage 204](#_Toc24518963)

[3.1.4.60.2 Elements 204](#_Toc24518964)

[3.1.4.60.2.1 SetTransition 204](#_Toc24518965)

[3.1.4.60.2.2 SetTransitionResponse 205](#_Toc24518966)

[3.1.4.60.3 Complex Types 205](#_Toc24518967)

[3.1.4.60.4 Simple Types 205](#_Toc24518968)

[3.1.4.60.5 Attributes 205](#_Toc24518969)

[3.1.4.60.6 Groups 206](#_Toc24518970)

[3.1.4.60.7 Attribute Groups 206](#_Toc24518971)

[3.1.4.61 SetTransitionApplyAll 206](#_Toc24518972)

[3.1.4.61.1 Messages 206](#_Toc24518973)

[3.1.4.61.1.1 IPptEdit\_SetTransitionApplyAll\_InputMessage 206](#_Toc24518974)

[3.1.4.61.1.2 IPptEdit\_SetTransitionApplyAll\_OutputMessage 207](#_Toc24518975)

[3.1.4.61.2 Elements 207](#_Toc24518976)

[3.1.4.61.2.1 SetTransitionApplyAll 207](#_Toc24518977)

[3.1.4.61.2.2 SetTransitionApplyAllResponse 207](#_Toc24518978)

[3.1.4.61.3 Complex Types 208](#_Toc24518979)

[3.1.4.61.4 Simple Types 208](#_Toc24518980)

[3.1.4.61.5 Attributes 208](#_Toc24518981)

[3.1.4.61.6 Groups 208](#_Toc24518982)

[3.1.4.61.7 Attribute Groups 208](#_Toc24518983)

[3.1.4.62 SetWordArt 208](#_Toc24518984)

[3.1.4.62.1 Messages 208](#_Toc24518985)

[3.1.4.62.1.1 IPptEdit\_SetWordArt\_InputMessage 208](#_Toc24518986)

[3.1.4.62.1.2 IPptEdit\_SetWordArt\_OutputMessage 209](#_Toc24518987)

[3.1.4.62.2 Elements 209](#_Toc24518988)

[3.1.4.62.2.1 SetWordArt 209](#_Toc24518989)

[3.1.4.62.2.2 SetWordArtResponse 209](#_Toc24518990)

[3.1.4.62.3 Complex Types 210](#_Toc24518991)

[3.1.4.62.4 Simple Types 210](#_Toc24518992)

[3.1.4.62.5 Attributes 210](#_Toc24518993)

[3.1.4.62.6 Groups 210](#_Toc24518994)

[3.1.4.62.7 Attribute Groups 210](#_Toc24518995)

[3.1.4.63 ShapeFormatPainting 210](#_Toc24518996)

[3.1.4.63.1 Messages 210](#_Toc24518997)

[3.1.4.63.1.1 IPptEdit\_ShapeFormatPainting\_InputMessage 211](#_Toc24518998)

[3.1.4.63.1.2 IPptEdit\_ShapeFormatPainting\_OutputMessage 211](#_Toc24518999)

[3.1.4.63.2 Elements 211](#_Toc24519000)

[3.1.4.63.2.1 ShapeFormatPainting 211](#_Toc24519001)

[3.1.4.63.2.2 ShapeFormatPaintingResponse 212](#_Toc24519002)

[3.1.4.63.3 Complex Types 212](#_Toc24519003)

[3.1.4.63.4 Simple Types 212](#_Toc24519004)

[3.1.4.63.5 Attributes 212](#_Toc24519005)

[3.1.4.63.6 Groups 212](#_Toc24519006)

[3.1.4.63.7 Attribute Groups 212](#_Toc24519007)

[3.1.4.64 ShowHideSlide 213](#_Toc24519008)

[3.1.4.64.1 Messages 213](#_Toc24519009)

[3.1.4.64.1.1 IPptEdit\_ShowHideSlide\_InputMessage 213](#_Toc24519010)

[3.1.4.64.1.2 IPptEdit\_ShowHideSlide\_OutputMessage 213](#_Toc24519011)

[3.1.4.64.2 Elements 213](#_Toc24519012)

[3.1.4.64.2.1 ShowHideSlide 214](#_Toc24519013)

[3.1.4.64.2.2 ShowHideSlideResponse 214](#_Toc24519014)

[3.1.4.64.3 Complex Types 214](#_Toc24519015)

[3.1.4.64.4 Simple Types 214](#_Toc24519016)

[3.1.4.64.5 Attributes 214](#_Toc24519017)

[3.1.4.64.6 Groups 215](#_Toc24519018)

[3.1.4.64.7 Attribute Groups 215](#_Toc24519019)

[3.1.4.65 Undo 215](#_Toc24519020)

[3.1.4.65.1 Messages 215](#_Toc24519021)

[3.1.4.65.1.1 IPptEdit\_Undo\_InputMessage 215](#_Toc24519022)

[3.1.4.65.1.2 IPptEdit\_Undo\_OutputMessage 215](#_Toc24519023)

[3.1.4.65.2 Elements 216](#_Toc24519024)

[3.1.4.65.2.1 Undo 216](#_Toc24519025)

[3.1.4.65.2.2 UndoResponse 216](#_Toc24519026)

[3.1.4.65.3 Complex Types 216](#_Toc24519027)

[3.1.4.65.4 Simple Types 216](#_Toc24519028)

[3.1.4.65.5 Attributes 216](#_Toc24519029)

[3.1.4.65.6 Groups 217](#_Toc24519030)

[3.1.4.65.7 Attribute Groups 217](#_Toc24519031)

[3.1.4.66 UngroupShape 217](#_Toc24519032)

[3.1.4.66.1 Messages 217](#_Toc24519033)

[3.1.4.66.1.1 IPptEdit\_UngroupShape\_InputMessage 217](#_Toc24519034)

[3.1.4.66.1.2 IPptEdit\_UngroupShape\_OutputMessage 217](#_Toc24519035)

[3.1.4.66.2 Elements 218](#_Toc24519036)

[3.1.4.66.2.1 UngroupShape 218](#_Toc24519037)

[3.1.4.66.2.2 UngroupShapeResponse 218](#_Toc24519038)

[3.1.4.66.3 Complex Types 218](#_Toc24519039)

[3.1.4.66.4 Simple Types 219](#_Toc24519040)

[3.1.4.66.5 Attributes 219](#_Toc24519041)

[3.1.4.66.6 Groups 219](#_Toc24519042)

[3.1.4.66.7 Attribute Groups 219](#_Toc24519043)

[3.1.4.67 UpdateCanary 219](#_Toc24519044)

[3.1.4.67.1 Messages 219](#_Toc24519045)

[3.1.4.67.1.1 IPptEdit\_UpdateCanary\_InputMessage 219](#_Toc24519046)

[3.1.4.67.1.2 IPptEdit\_UpdateCanary\_OutputMessage 220](#_Toc24519047)

[3.1.4.67.2 Elements 220](#_Toc24519048)

[3.1.4.67.2.1 UpdateCanary 220](#_Toc24519049)

[3.1.4.67.2.2 UpdateCanaryResponse 220](#_Toc24519050)

[3.1.4.67.3 Complex Types 220](#_Toc24519051)

[3.1.4.67.4 Simple Types 221](#_Toc24519052)

[3.1.4.67.5 Attributes 221](#_Toc24519053)

[3.1.4.67.6 Groups 221](#_Toc24519054)

[3.1.4.67.7 Attribute Groups 221](#_Toc24519055)

[3.1.5 Timer Events 221](#_Toc24519056)

[3.1.6 Other Local Events 221](#_Toc24519057)

[4 Protocol Examples 222](#_Toc24519058)

[4.1 Sample Protocol Interaction 222](#_Toc24519059)

[5 Security 232](#_Toc24519060)

[5.1 Security Considerations for Implementers 232](#_Toc24519061)

[5.2 Index of Security Parameters 232](#_Toc24519062)

[6 Appendix A: Full WSDL 233](#_Toc24519063)

[7 Appendix B: Full XML Schema 260](#_Toc24519064)

[7.1 http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared Schema 260](#_Toc24519065)

[7.2 http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface Schema 261](#_Toc24519066)

[7.3 http://schemas.datacontract.org/2004/07/p Schema 262](#_Toc24519067)

[7.4 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 270](#_Toc24519068)

[7.5 http://schemas.microsoft.com/2003/10/Serialization/ Schema 270](#_Toc24519069)

[7.6 http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ Schema 271](#_Toc24519070)

[8 Appendix C: Product Behavior 290](#_Toc24519071)

[9 Change Tracking 295](#_Toc24519072)

[10 Index 296](#_Toc24519073)

# Introduction

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

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

## Glossary

This document uses the following terms:

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

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

**build identifier**: An integer that identifies a build.

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

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

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

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

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

**Hypertext Markup Language (HTML)**: An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880).

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

**Hypertext Transfer Protocol Secure (HTTPS)**: An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [[SSL3]](https://go.microsoft.com/fwlink/?LinkId=90534) and [[RFC5246]](https://go.microsoft.com/fwlink/?LinkId=129803).

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

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

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

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

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

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

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

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

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

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

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

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

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [[SOAP1.2-1/2003]](https://go.microsoft.com/fwlink/?LinkId=90521).

**SOAP action**: The HTTP request header field used to indicate the intent of the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) request, using a URI value. See [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 6.1.1 for more information.

**SOAP body**: A container for the payload data being delivered by a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59) to its recipient. See [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

**SOAP fault**: A container for error and status information within a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59). See [SOAP1.2-1/2007] section 5.4 for more information.

**SOAP message**: An XML document consisting of a mandatory SOAP envelope, an optional SOAP header, and a mandatory [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04). See [SOAP1.2-1/2007] section 5 for more information.

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

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

**Uniform Resource Locator (URL)**: A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [[RFC1738]](https://go.microsoft.com/fwlink/?LinkId=90287).

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

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

**WSDL message**: An abstract, typed definition of the data that is communicated during a [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299) [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577). Also, an element that describes the data being exchanged between web service providers and clients.

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

**XML namespace**: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [[RFC3986]](https://go.microsoft.com/fwlink/?LinkId=90453). A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [[XMLNS-2ED]](https://go.microsoft.com/fwlink/?LinkId=90602).

**XML namespace prefix**: An abbreviated form of an [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24), as described in [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598).

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

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

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

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

[ISO/IEC29500-1:2016] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference", ISO/IEC 29500-1:2016, [https://www.iso.org/standard/71691.html](https://go.microsoft.com/fwlink/?linkid=861065)

[MS-LCID] Microsoft Corporation, "[Windows Language Code Identifier (LCID) Reference](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f)".

[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](https://go.microsoft.com/fwlink/?LinkId=90317)

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, [http://www.rfc-editor.org/rfc/rfc2616.txt](https://go.microsoft.com/fwlink/?LinkId=90372)

[RFC4627] Crockford, D., "The application/json Media Type for JavaScript Object Notation (JSON)", RFC 4627, July 2006, [http://www.rfc-editor.org/rfc/rfc4627.txt](https://go.microsoft.com/fwlink/?LinkId=140879)

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, [http://www.w3.org/TR/2000/NOTE-SOAP-20000508/](https://go.microsoft.com/fwlink/?LinkId=90520)

[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](https://go.microsoft.com/fwlink/?LinkId=90521)

[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](https://go.microsoft.com/fwlink/?LinkId=90577)

[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/](https://go.microsoft.com/fwlink/?LinkId=191840)

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/](https://go.microsoft.com/fwlink/?LinkId=90607)

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, [http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/](https://go.microsoft.com/fwlink/?LinkId=90608)

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/](https://go.microsoft.com/fwlink/?LinkId=90609)

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, [http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/](https://go.microsoft.com/fwlink/?LinkId=90610)

### Informative References

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation, December 1999, [http://www.w3.org/TR/html4/](https://go.microsoft.com/fwlink/?LinkId=89880)

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, [http://www.rfc-editor.org/rfc/rfc2818.txt](https://go.microsoft.com/fwlink/?LinkId=90383)

[RFC2822] Resnick, P., Ed., "Internet Message Format", RFC 2822, April 2001, [http://www.ietf.org/rfc/rfc2822.txt](https://go.microsoft.com/fwlink/?LinkId=90385)

[SOAP1.2-1/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 1: Messaging Framework (Second Edition)", W3C Recommendation, April 2007, [http://www.w3.org/TR/2007/REC-soap12-part1-20070427/](https://go.microsoft.com/fwlink/?LinkId=94664)

[SOAP1.2-2/2007] Gudgin, M., Hadley, M., Mendelsohn, N., et al., "SOAP Version 1.2 Part 2: Adjuncts (Second Edition)", W3C Recommendation, April 2007, [http://www.w3.org/TR/2007/REC-soap12-part2-20070427](https://go.microsoft.com/fwlink/?LinkId=119124)

## Protocol Overview (Synopsis)

This protocol enables a protocol client to send a request to modify [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) 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**](#gt_18428521-9032-41a4-85c4-6fb65d882192), [**main master slides**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d), and [**slide layouts**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107). The protocol client can also send a request to the protocol server and then receive from the protocol server images of [**slide**](#gt_dd8a2def-ebde-4fc7-b420-6e837b2059cc) content.

## Relationship to Other Protocols

This protocol uses the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) message protocol for formatting request and response messages, as described in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) and [[SOAP1.2-2/2007]](https://go.microsoft.com/fwlink/?LinkId=119124). It transmits those messages by using [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372), or [**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383).

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

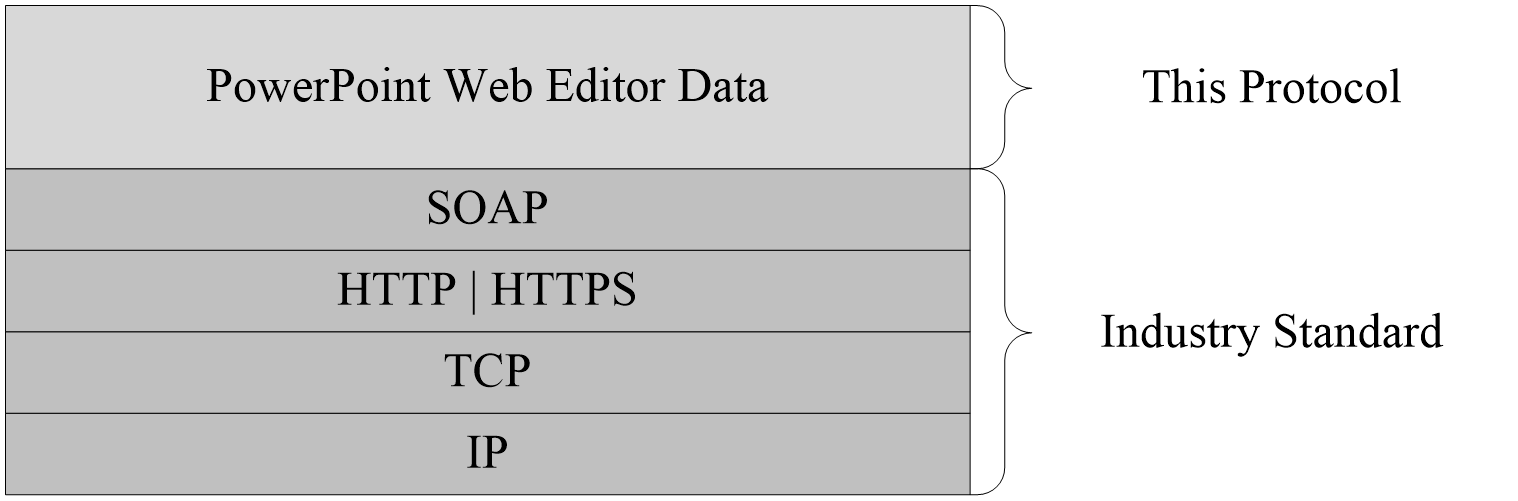


Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a set of [**Web sites**](#gt_04b6a259-c555-4695-a236-57a32087deac) that is identified by a set of [**URLs**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that are known by protocol clients.

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

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

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

## Applicability Statement

This protocol is designed to retrieve information about and to modify [**presentations**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) that are stored on the protocol server.

## 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](#Section_1f501d8e70084d0f83659fc92d8110e4).

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) 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**.

## 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]](https://go.microsoft.com/fwlink/?LinkId=140879) over HTTP and HTTPS.[<1>](#Appendix_A_1" \o "Product behavior note 1)

Protocol messages MUST be formatted as specified either in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 4 or in [[SOAP1.2/1]](https://go.microsoft.com/fwlink/?LinkId=90521) section 5. Protocol server faults MUST be returned either using HTTP Status Codes, as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10 or using [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in either [SOAP1.1] section 4.4 or in [SOAP1.2/1] section 5.4.

## Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) as defined in [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610), and [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) as defined in [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) using the mechanisms specified in [[XMLNS]](https://go.microsoft.com/fwlink/?LinkId=191840). Although this specification associates a specific [**XML namespace prefix**](#gt_b9a20be7-31d9-4dcd-9cb9-ba72302857a2) for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

| Prefix | Namespace URI | Reference |
| --- | --- | --- |
| q3 | http://schemas.microsoft.com/2003/10/Serialization/Arrays |  |
| soap | http://schemas.xmlsoap.org/wsdl/soap/ | [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) |
| tns | http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ |  |
| tns1 | http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared |  |
| tns2 | http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface |  |
| tns3 | http://schemas.datacontract.org/2004/07/p |  |
| tns4 | http://schemas.microsoft.com/2003/10/Serialization/ |  |
| tns5 | http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports |  |
| wsaw | http://www.w3.org/2006/05/addressing/wsdl |  |
| wsdl | http://schemas.xmlsoap.org/wsdl/ | [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577) |
| xs | http://www.w3.org/2001/XMLSchema | [[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607)  [[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) |

### Messages

This specification does not define any common [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions.

### Elements

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions.

### Complex Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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>](#Appendix_A_2" \o "Product behavior note 2) specifies a list of **Comment** elements. |
| **ArrayOfContentMasterFe** | The **ArrayOfContentMasterFe** complex type specifies a list of **ContentMasterFe** elements. |
| **ArrayOfEditAnimInfo** | The **ArrayOfEditAnimInfo** complex type[<3>](#Appendix_A_3" \o "Product behavior note 3) specifies a list of **EditAnimInfo** elements. |
| **ArrayOfEditorInfo** | The **ArrayOfEditorInfo** complex type[<4>](#Appendix_A_4" \o "Product behavior note 4) specifies a list of **EditorInfo** elements. |
| **ArrayOfEditShape** | The **ArrayOfEditShape** complex type specifies a list of **EditShape** elements. |
| **ArrayOfEditSlide** | The **ArrayOfEditSlide** complex type specifies a list of **EditSlide** elements. |
| **ArrayOfEditSlideChanges** | The **ArrayOfEditSlideChanges** complex type specifies a list of **EditSlideChanges** elements. |
| **ArrayOfEditSlideInfoFe** | The **ArrayOfEditSlideInfoFe** complex type specifies a list of **EditSlideInfoFe** elements. |
| **ArrayOfMainMasterFe** | The **ArrayOfMainMasterFe** complex type specifies a list of **MainMasterFe** elements. |
| **ArrayOfMainMasterResourcesFe** | The **ArrayOfMainMasterResourcesFe** specifies a list of **MainMasterResourcesFe** elements. |
| **ArrayOfSlideUpdateInfo** | The **ArrayOfSlideUpdateInfo** specifies a list of **SlideUpdateInfo** elements. |
| **ArrayOfStyleGalleryItem** | The **ArrayOfStyleGalleryItem** complex type[<5>](#Appendix_A_5" \o "Product behavior note 5) specifies a list of **StyleGalleryItem** elements. |
| **ArrayOfunsignedInt** | The **ArrayOfunsignedInt** complex type specifies a list of **unsignedInt** elements ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22). |
| **ArrayOfViewElement** | The **ArrayOfViewElement** complex type specifies a list of **ViewElement** elements. |
| **BoundingRegion** | The **BoundingRegion** complex type[<6>](#Appendix_A_6" \o "Product behavior note 6) specifies the rotated bounds of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e). |
| **ClippingInfo** | The **ClippingInfo** complex type[<7>](#Appendix_A_7" \o "Product behavior note 7) specifies a region within an image. |
| **CoauthState** | The **CoauthState** complex type[<8>](#Appendix_A_8" \o "Product behavior note 8) specifies the co-authoring state of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae). |
| **CoauthUpdate** | The **CoauthUpdate** complex type[<9>](#Appendix_A_9" \o "Product behavior note 9) specifies the co-authoring state of the presentation. |
| **Comment** | The **Comment** complex type[<10>](#Appendix_A_10" \o "Product behavior note 10) specifies a single [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d), and its replies. |
| **ContentMasterFe** | The **ContentMasterFe** complex type specifies a [**slide layout**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107). |
| **ContentUpdateInfo** | Reserved. MUST be ignored. |
| **EditAnimInfo** | The **EditAnimInfo** complex type[<11>](#Appendix_A_11" \o "Product behavior note 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>](#Appendix_A_12" \o "Product behavior note 12) specifies an editor of the presentation. |
| **EditPresentationChanges** | The **EditPresentationChanges** complex type specifies the content of the presentation that is modified as a result of a request to the protocol server. |
| **EditPresentationInfo** | The **EditPresentationInfo** complex type specifies information about the content of a specified presentation. |
| **EditPresentationResources** | Reserved. MUST be ignored. |
| **EditShape** | The **EditShape** complex type specifies a shape. |
| **EditSlide** | The **EditSlide** complex type specifies a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192). |
| **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>](#Appendix_A_13" \o "Product behavior note 13) specifies a slide transition. |
| **FontSizeMapping** | Reserved; this element MUST be ignored. |
| **Html** | The **Html** complex type specifies [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) content. |
| **MainMasterFe** | The **MainMasterFe** complex type specifies a [**main master slide**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d). |
| **MainMasterResourcesFe** | Reserved. MUST be ignored. |
| **Notes** | The **Notes** complex type specifies the notes of a presentation slide. |
| **Point** | The **Point** complex type specifies a two dimensional point. |
| **PptViewingService.PrintResult** | The **PptViewingService.PrintResult** complex type[<14>](#Appendix_A_14" \o "Product behavior note 14) specifies the result of a print operation. |
| **PresetSchemeColorMapping** | The **PresetSchemeColorMapping** complex type[<15>](#Appendix_A_15" \o "Product behavior note 15) specifies a set of colors in the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8). |
| **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>](#Appendix_A_16" \o "Product behavior note 16)identify a presentation slide. |
| **SlideIdList** | The **SlideIdList** complex type specifies a list of identifiers for presentation slides. |
| **SlideUpdateInfo** | Reserved. MUST be ignored. |
| **SmartArtInfo** | The **SmartArtInfo** complex type specifies information about a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram. |
| **StyleGalleryItem** | The **StyleGalleryItem** complex type[<17>](#Appendix_A_17" \o "Product behavior note 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. |

#### ArrayOfComment

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

The **ArrayOfComment** complex type[<18>](#Appendix_A_18" \o "Product behavior note 18) specifies a list of **Comment** elements.

1. <xs:complexType name="ArrayOfComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="Comment" nillable="true" type="tns3:Comment"/>
4. </xs:sequence>
5. </xs:complexType>

**Comment:** Each element MUST specify a **Comment** complex type (section [2.2.4.19](#Section_46de162f9a00448fa230b878a950fa51)) instance.

#### ArrayOfContentMasterFe

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

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

1. <xs:complexType name="ArrayOfContentMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ContentMasterFe" nillable="true" type="tns3:ContentMasterFe"/>
4. </xs:sequence>
5. </xs:complexType>

**ContentMasterFe:** Each element MUST specify a **ContentMasterFe** complex type (section [2.2.4.20](#Section_14bd2bdb36414cb199a6728f5ea5befc)) instance.

#### ArrayOfEditAnimInfo

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

The **ArrayOfEditAnimInfo** complex type[<19>](#Appendix_A_19" \o "Product behavior note 19) specifies a list of **EditAnimInfo** elements.

1. <xs:complexType name="ArrayOfEditAnimInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditAnimInfo" nillable="true" type="tns3:EditAnimInfo"/>
4. </xs:sequence>
5. </xs:complexType>

**EditAnimInfo:** Each element MUST specify an **EditAnimInfo** complex type (section [2.2.4.22](#Section_6e3db19a3bd14406aa382873b86d9126)) instance.

#### ArrayOfEditorInfo

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

The **ArrayOfEditorInfo** complex type[<20>](#Appendix_A_20" \o "Product behavior note 20) specifies a list of **EditorInfo** elements.

1. <xs:complexType name="ArrayOfEditorInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditorInfo" nillable="true" type="tns3:EditorInfo"/>
4. </xs:sequence>
5. </xs:complexType>

**EditorInfo:** Each element MUST specify an **EditorInfo** complex type (section [2.2.4.24](#Section_787fb0d84ee34672b17a56a115e68822)) instance.

#### ArrayOfEditShape

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

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

1. <xs:complexType name="ArrayOfEditShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditShape" nillable="true" type="tns3:EditShape"/>
4. </xs:sequence>
5. </xs:complexType>

**EditShape:** Each element MUST specify an **EditShape** complex type (section [2.2.4.28](#Section_7dcc2bd9a0404b3db0ecec119f0bc4d1)) instance.

#### ArrayOfEditSlide

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

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

1. <xs:complexType name="ArrayOfEditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true" type="tns3:EditSlide"/>
4. </xs:sequence>
5. </xs:complexType>

**EditSlide:** Each element MUST specify an **EditSlide** complex type (section [2.2.4.29](#Section_536b029b31804ae2906e06a1d726b04f)) instance.

#### ArrayOfEditSlideChanges

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

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

1. <xs:complexType name="ArrayOfEditSlideChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true" type="tns3:EditSlideChanges"/>
4. </xs:sequence>
5. </xs:complexType>

**EditSlideChanges:** Each element MUST specify an **EditSlideChanges** complex type (section [2.2.4.30](#Section_01512d8cff77450096e0426d82ccccd7)) instance.

#### ArrayOfEditSlideInfoFe

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

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

1. <xs:complexType name="ArrayOfEditSlideInfoFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideInfoFe" nillable="true" type="tns3:EditSlideInfoFe"/>
4. </xs:sequence>
5. </xs:complexType>

**EditSlideInfoFe:** Each element MUST specify an **EditSlideInfoFe** complex type (section [2.2.4.31](#Section_2b6e2b26ca4a4daeae579828c4a10f33)) instance.

#### ArrayOfMainMasterFe

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

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

1. <xs:complexType name="ArrayOfMainMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterFe" nillable="true" type="tns3:MainMasterFe"/>
4. </xs:sequence>
5. </xs:complexType>

**MainMasterFe:** Each element MUST specify a **MainMasterFe** complex type (section [2.2.4.35](#Section_d228db5cc2a74b10a6925869749120c1)) instance.

#### ArrayOfMainMasterResourcesFe

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

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

1. <xs:complexType name="ArrayOfMainMasterResourcesFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterResourcesFe" nillable="true" type="tns3:MainMasterResourcesFe"/>
4. </xs:sequence>
5. </xs:complexType>

**MainMasterResourcesFe:** Each element MUST specify a **MainMasterResourcesFe** complex type (section [2.2.4.36](#Section_ab4965885ab840a7b5a21940335fd363)) instance.

#### ArrayOfSlideUpdateInfo

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

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

1. <xs:complexType name="ArrayOfSlideUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="SlideUpdateInfo" nillable="true" type="tns3:SlideUpdateInfo"/>
4. </xs:sequence>
5. </xs:complexType>

**SlideUpdateInfo:** Each element MUST specify a **SlideUpdateInfo** complex type (section [2.2.4.46](#Section_22acac818f5a40f6ae65f26a44cc587c)) instance.

#### ArrayOfStyleGalleryItem

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

The **ArrayOfStyleGalleryItem** complex type[<21>](#Appendix_A_21" \o "Product behavior note 21) specifies a list of **StyleGalleryItem** elements.

1. <xs:complexType name="ArrayOfStyleGalleryItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="StyleGalleryItem" nillable="true" type="tns3:StyleGalleryItem"/>
4. </xs:sequence>
5. </xs:complexType>

**StyleGalleryItem:** Each element MUST specify a **StyleGalleryItem** complex type (section [2.2.4.48](#Section_fc452ac273774489bccd8bdd040a2cb4)) instance.

#### ArrayOfunsignedInt

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

The **ArrayOfunsignedInt** complex type specifies a list of **unsignedInt** elements ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22).

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

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

#### ArrayOfViewElement

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

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

1. <xs:complexType name="ArrayOfViewElement" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="ViewElement" nillable="true" type="tns3:ViewElement"/>
4. </xs:sequence>
5. </xs:complexType>

**ViewElement:** Each element MUST specify a **ViewElement** complex type (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) instance.

#### BoundingRegion

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

The **BoundingRegion** complex type[<22>](#Appendix_A_22" \o "Product behavior note 22) specifies the rotated bounds of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

1. <xs:complexType name="BoundingRegion" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="BottomLeft" nillable="true" type="tns3:Point"/>
4. <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns3:Point"/>
5. <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns3:Point"/>
6. <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns3:Point"/>
7. </xs:sequence>
8. </xs:complexType>

**BottomLeft:** A **Point** complex element (section [2.2.4.38](#Section_10c2d5bbb5ac493e88aa96e71282a80e)) 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.

#### ClippingInfo

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

The **ClippingInfo** complex type[<23>](#Appendix_A_23" \o "Product behavior note 23) specifies a region within an image.

1. <xs:complexType name="ClippingInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Bounds" nillable="true" type="tns3:Rectangle"/>
4. <xs:element minOccurs="0" name="TotalHeight" type="xs:int"/>
5. <xs:element minOccurs="0" name="TotalWidth" type="xs:int"/>
6. </xs:sequence>
7. </xs:complexType>

**Bounds:** A **Rectangle** complex element (section [2.2.4.41](#Section_be61d1b4429a49519bd7c0d61a34f916)) that specifies the bounds of the region. This element MUST be present.

**TotalHeight:** An **int** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.17) that specifies the total height of the image.

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

#### CoauthState

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

The **CoauthState** complex type[<24>](#Appendix_A_24" \o "Product behavior note 24) specifies the co-authoring state of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

1. <xs:complexType name="CoauthState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="cs" type="xs:int"/>
4. <xs:element minOccurs="0" name="et" nillable="true" type="tns3:ArrayOfEditorInfo"/>
5. <xs:element minOccurs="0" name="lsave" type="xs:dateTime"/>
6. <xs:element minOccurs="0" name="lsmce" type="xs:dateTime"/>
7. <xs:element minOccurs="0" name="lsum" type="xs:dateTime"/>
8. <xs:element minOccurs="0" name="meid" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="sui" nillable="true" type="tns3:ContentUpdateInfo"/>
10. </xs:sequence>
11. </xs:complexType>

**cs:** Reserved. MUST be ignored.

**et:** An **ArrayOfEditorInfo** complex element (section [2.2.4.4](#Section_291d7839c2dd4e0d9f1ff1678b8c81ca)) that specifies the list of editors that are currently co-authoring the presentation.

**lsave:** Reserved. MUST be ignored.

**lsmce:** Reserved. MUST be ignored.

**lsum:** Reserved. MUST be ignored.

**meid:** Reserved. MUST be ignored.

**sui:** Reserved. MUST be ignored.

#### CoauthUpdate

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

The **CoauthUpdate** complex type[<25>](#Appendix_A_25" \o "Product behavior note 25) specifies the co-authoring state of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

1. <xs:complexType name="CoauthUpdate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="State" nillable="true" type="tns3:CoauthState"/>
4. <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>

**State:** A **CoauthState** complex element (section [2.2.4.17](#Section_61b7b47cdd9045ed9ccd968320455c39)) that specifies the co-authoring state of the presentation.

**Token:** Reserved. MUST be ignored.

#### Comment

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

The **Comment** complex type[<26>](#Appendix_A_26" \o "Product behavior note 26) specifies a single [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d), and its replies.

1. <xs:complexType name="Comment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Children" nillable="true" type="tns3:ArrayOfComment"/>
4. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="authorName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="dt" type="xs:dateTime"/>
7. <xs:element minOccurs="0" name="idx" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="pos" nillable="true" type="tns3:Point"/>
9. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:complexType>

**Children:** An **ArrayOfComment** complex type (section [2.2.4.1](#Section_6f6913b6eb184c35ba7a4d77b2cb5b20)) that contains the replies to this comment.

**authorId:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22)that specifies the identifier of the author of the comment. This element MUST be present.

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

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

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

**pos:** A **Point** complex type (section [2.2.4.38](#Section_10c2d5bbb5ac493e88aa96e71282a80e)) that specifies the position of the comment on the slide.

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

#### ContentMasterFe

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

The **ContentMasterFe** complex type specifies a [**slide layout**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107).

1. <xs:complexType name="ContentMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="SlideLayoutType" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>

**Id:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22) that specifies the identifier for the slide layout. This element MUST be present.

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

**SlideLayoutType:** A **string** that specifies the layout type as specified by **ST\_SlideLayoutType** [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.15. This element MUST be present.

#### ContentUpdateInfo

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

Reserved. MUST be ignored.

1. <xs:complexType name="ContentUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="lplu" type="xs:dateTime"/>
5. <xs:element minOccurs="0" name="redo" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="sui" nillable="true" type="tns3:ArrayOfSlideUpdateInfo"/>
7. <xs:element minOccurs="0" name="undo" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>

**leid:** Reserved. MUST be ignored.

**lplu:**  Reserved. MUST be ignored.

**redo:**  Reserved. MUST be ignored.

**sui:**  Reserved. MUST be ignored.

**undo:**  Reserved. MUST be ignored.

#### EditAnimInfo

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

The **EditAnimInfo** complex type[<27>](#Appendix_A_27" \o "Product behavior note 27) specifies a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) animation.

1. <xs:complexType name="EditAnimInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="BuildIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
4. <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="EffectId" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="HasExisting" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="HasTrigger" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="SequenceId" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>

**BuildIds:** An **ArrayOfunsignedInt** complex element (section [2.2.4.13](#Section_f42f1f2b60294566b76279a4516bb1b1)) that specifies the list of [**build identifiers**](#gt_0748643f-8a66-42ea-959a-3acd533eedc5). This element MUST be present.

**Direction:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22) that specifies the direction of animation. This element can be present.

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

**HasExisting:** Reserved. MUST be ignored.

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

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

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

#### EditCommandResponse

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

The **EditCommandResponse** complex type specifies the response of a modification to a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

1. <xs:complexType name="EditCommandResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="PresChanges" nillable="true" type="tns3:EditPresentationChanges"/>
4. </xs:sequence>
5. </xs:complexType>

**PresChanges:** An **EditPresentationChanges** complex type (section [2.2.4.25](#Section_d01bed2dea224de0a74b4426751b9b13)) that specifies the content of the presentation that is modified.

#### EditorInfo

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

The **EditorInfo** complex type[<28>](#Appendix_A_28" \o "Product behavior note 28) specifies an editor of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

1. <xs:complexType name="EditorInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="ID" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="SIPAddress" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="TimeOut" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>

**EmailAddress:** Reserved. MUST be ignored.

**ID:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### EditPresentationChanges

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

The **EditPresentationChanges** complex type specifies the content of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) that is modified as a result of a request to the protocol server.

1. <xs:complexType name="EditPresentationChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="AddedSlideInfos" nillable="true" type="tns3:ArrayOfEditSlideInfoFe"/>
4. <xs:element minOccurs="0" name="AddedSlides" nillable="true" type="tns3:ArrayOfEditSlide"/>
5. <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="MainMasterIds" nillable="true" type="tns3:SlideIdList"/>
7. <xs:element minOccurs="0" name="ModifiedSlides" nillable="true" type="tns3:ArrayOfEditSlideChanges"/>
8. <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
9. <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
10. <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
11. </xs:sequence>
12. </xs:complexType>

**AddedSlideInfos:** An **ArrayOfEditSlideInfoFe** complex element (section [2.2.4.8](#Section_0d8b11b13d2947c9b556eb37eb3c74eb)) that specifies information about [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) added to the presentation. This element MUST be present.

**AddedSlides:** An **ArrayOfEditSlide** complex element (section [2.2.4.5](#Section_dff6cd008c224f2b80d5e7a1d5cd3cff)) that specifies presentation slides added to the presentation. This element MUST be present.

**InvalidateAllThumbs:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that SHOULD[<29>](#Appendix_A_29" \o "Product behavior note 29) specify whether all thumbnails are invalid. This element MUST be present.

**MainMasterIds:** A **SlideIdList** complex element (section [2.2.4.45](#Section_98c6777246f64815afb9b577b73413ed)) that specifies [**main master slides**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d) that are referenced by presentation slides.

**ModifiedSlides:** An **ArrayOfEditSlideChanges** complex element (section [2.2.4.7](#Section_282ae8cda07540ae8ecd7f847804cd89)) that specifies slide content that is modified. This element MUST be present.

**Redo:** A **boolean** that specifies whether a **Redo** operation (section [3.1.4.38](#Section_cc7c2552b8344942810ec42f0f1b99be)) is possible. This element MUST be present.

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

**Undo:** A **boolean** that specifies whether an **Undo** operation (section [3.1.4.65](#Section_88aae16b28cc4ddda1fa97326667682f)) is possible. This element MUST be present.

#### EditPresentationInfo

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

The **EditPresentationInfo** complex type specifies information about the content of a specified [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

1. <xs:complexType name="EditPresentationInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="CompatProblems" type="xs:boolean"/>
4. <xs:element minOccurs="0" name="EditSlideInfos" nillable="true" type="tns3:ArrayOfEditSlideInfoFe"/>
5. <xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="MainMasters" nillable="true" type="tns3:ArrayOfMainMasterFe"/>
7. <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="Rtl" type="xs:boolean"/>
9. <xs:element minOccurs="0" name="Size" nillable="true" type="tns3:Point"/>
10. <xs:element minOccurs="0" name="Slide" nillable="true" type="tns3:EditSlide"/>
11. <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
12. <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
13. </xs:sequence>
14. </xs:complexType>

**CompatProblems:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that SHOULD[<30>](#Appendix_A_30" \o "Product behavior note 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](#Section_0d8b11b13d2947c9b556eb37eb3c74eb)) that specifies information about [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192). 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](#Section_449739c8e30e43fb8c2255f541049d32)) that specify information about [**main master slides**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d). This element MUST be present.

**Redo:** A **boolean** that specifies whether a **Redo** operation (section [3.1.4.38](#Section_cc7c2552b8344942810ec42f0f1b99be)) is possible. This element MUST be present.

**Rtl:** A **boolean** that specifies whether the presentation content is [**right-to-left**](#gt_91359688-7863-4e88-b507-f57b3dada5ec). This element MUST be present.

**Size:** A **Point** complex element (section [2.2.4.38](#Section_10c2d5bbb5ac493e88aa96e71282a80e)) that specifies the dimensions of the presentation slides. This element MUST be present.

**Slide:** Reserved. MUST be ignored.

**SlideOrder:** A **SlideIdList** complex element (section [2.2.4.45](#Section_98c6777246f64815afb9b577b73413ed)) that specifies the order of the presentation slides. This element MUST be present.

**Undo:** A **boolean** that specifies whether an **Undo** operation (section [3.1.4.65](#Section_88aae16b28cc4ddda1fa97326667682f)) is possible. This element MUST be present.

#### EditPresentationResources

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

Reserved. MUST be ignored.

1. <xs:complexType name="EditPresentationResources" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="MainMasterResources" nillable="true" type="tns3:ArrayOfMainMasterResourcesFe"/>
4. </xs:sequence>
5. </xs:complexType>

**MainMasterResources:**  Reserved. MUST be ignored.

#### EditShape

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

The **EditShape** complex type specifies a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

1. <xs:complexType name="EditShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns3:Rectangle"/>
5. <xs:element minOccurs="0" name="EditHtml" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="FFlippedHorizontally" type="xs:boolean"/>
7. <xs:element minOccurs="0" name="FFlippedVertically" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="FontName" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="FontSize" type="xs:unsignedInt"/>
10. <xs:element minOccurs="0" name="FontSizeMapping" nillable="true" type="tns3:FontSizeMapping"/>
11. <xs:element minOccurs="0" name="HasEffectAndNoFill" type="xs:boolean"/>
12. <xs:element minOccurs="0" name="IsActiveX" type="xs:boolean"/>
13. <xs:element minOccurs="0" name="IsBold" type="xs:boolean"/>
14. <xs:element minOccurs="0" name="IsChart" type="xs:boolean"/>
15. <xs:element minOccurs="0" name="IsConnected" type="xs:boolean"/>
16. <xs:element minOccurs="0" name="IsGroup" type="xs:boolean"/>
17. <xs:element minOccurs="0" name="IsInk" type="xs:boolean"/>
18. <xs:element minOccurs="0" name="IsItalic" type="xs:boolean"/>
19. <xs:element minOccurs="0" name="IsLine" type="xs:boolean"/>
20. <xs:element minOccurs="0" name="IsNonNativeVideo" type="xs:boolean"/>
21. <xs:element minOccurs="0" name="IsOleObject" type="xs:boolean"/>
22. <xs:element minOccurs="0" name="IsPicture" type="xs:boolean"/>
23. <xs:element minOccurs="0" name="IsPlaceholder" type="xs:boolean"/>
24. <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
25. <xs:element minOccurs="0" name="IsSmartArt" type="xs:boolean"/>
26. <xs:element minOccurs="0" name="IsStraightLine" type="xs:boolean"/>
27. <xs:element minOccurs="0" name="IsTable" type="xs:boolean"/>
28. <xs:element minOccurs="0" name="IsTextbox" type="xs:boolean"/>
29. <xs:element minOccurs="0" name="IsUnderline" type="xs:boolean"/>
30. <xs:element minOccurs="0" name="PlaceholderType" type="xs:unsignedInt"/>
31. <xs:element minOccurs="0" name="RotatedBoundingRegion" nillable="true" type="tns3:BoundingRegion"/>
32. <xs:element minOccurs="0" name="Rotation" type="xs:int"/>
33. <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
34. <xs:element minOccurs="0" name="ShapeViewElemId" type="xs:unsignedInt"/>
35. <xs:element minOccurs="0" name="SmartArtInfo" nillable="true" type="tns3:SmartArtInfo"/>
36. <xs:element minOccurs="0" name="TextAlignmentType" type="xs:unsignedInt"/>
37. <xs:element minOccurs="0" name="TextBulletType" type="xs:unsignedInt"/>
38. <xs:element minOccurs="0" name="TextDirectionType" type="xs:unsignedInt"/>
39. <xs:element minOccurs="0" name="TextViewElemId" type="xs:unsignedInt"/>
40. <xs:element minOccurs="0" name="X" type="xs:double"/>
41. <xs:element minOccurs="0" name="Y" type="xs:double"/>
42. <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
43. </xs:sequence>
44. </xs:complexType>

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

**EditBounds:** A **Rectangle** complex type (section [2.2.4.41](#Section_be61d1b4429a49519bd7c0d61a34f916)) that specifies the bounds of the shape. This element MUST be present.

**EditHtml:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2 1) that specifies the text content of the shape as [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf). This element MUST be present.

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

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

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

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

**FontSizeMapping:** Reserved. MUST be ignored.

**HasEffectAndNoFill:** Reserved. MUST be ignored.

**IsActiveX:** A **boolean** that specifies whether the shape is an [**ActiveX control**](#gt_f3dcc35f-8f80-474e-ac39-106a23f059c2). This element MUST be present.

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

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

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

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

**IsInk:** A **boolean** that specifies whether the shape is an [**ink**](#gt_9fcdd1d5-3563-49b9-8a2e-bf696fb08fd0) drawing. This element MUST be present.

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

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

**IsNonNativeVideo:** Reserved. MUST be ignored.

**IsOleObject:**  A **boolean** that specifies whether the shape is an [**OLE object**](#gt_cdff9514-a3fb-4897-941d-4e99193a0096). 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**](#gt_25caffec-4e4b-4192-a04d-edcd14f0ec5f). 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**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram. This element MUST be present.

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

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

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

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

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

**RotatedBoundingRegion:** A **BoundingRegion** complex element (section [2.2.4.15](#Section_ca2944f74db3475885816744f28170e8)) that specifies the orientation of the shape. This element MUST be present.

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

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

**ShapeViewElemId:** An **unsignedInt** that specifies the identifier of the **ViewElement** complex element (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) for the shape. This element MUST be present.

**SmartArtInfo:** A **SmartArtInfo** complex element (section [2.2.4.47](#Section_ce0ca9a9776349a78b40da1c55a90e50)) that specifies information about the SmartArt diagram. This element MUST be present if and only if **IsSmartArt** is true.

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

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

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

| Value | Meaning |
| --- | --- |
| 0x0 | None |
| 0x1 | Bullet |
| 0x2 | Number |

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

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

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

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

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

**Z:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the [**z-order**](#gt_5d059b23-337a-4ab8-82f5-e3789b2e7ae9) of the shape.

#### EditSlide

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

The **EditSlide** complex type specifies a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

1. <xs:complexType name="EditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3:ArrayOfComment"/>
4. <xs:element minOccurs="0" name="ContentMasterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="Created" type="xs:dateTime"/>
6. <xs:element minOccurs="0" name="EditAnims" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
7. <xs:element minOccurs="0" name="EditShapes" nillable="true" type="tns3:ArrayOfEditShape"/>
8. <xs:element minOccurs="0" name="EditTransition" nillable="true" type="tns3:EditTransitionInfo"/>
9. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
10. <xs:element minOccurs="0" name="ID" type="tns3:SlideID"/>
11. <xs:element minOccurs="0" name="IsTitleContentMaster" type="xs:boolean"/>
12. <xs:element minOccurs="0" name="MainMasterId" type="xs:unsignedInt"/>
13. <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
14. <xs:element minOccurs="0" name="SlideId" type="xs:unsignedInt"/>
15. <xs:element minOccurs="0" name="Theme" nillable="true" type="tns3:Theme"/>
16. <xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true" type="tns3:ViewElement"/>
17. <xs:element minOccurs="0" name="ViewElems" nillable="true" type="tns3:ArrayOfViewElement"/>
18. </xs:sequence>
19. </xs:complexType>

**Comments:** An **ArrayOfComment** complex element (section [2.2.4.1](#Section_6f6913b6eb184c35ba7a4d77b2cb5b20)) that specifies [**comments**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) for the presentation slide.

**ContentMasterId:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22) that specifies the identifier of the **ContentMasterFe** complex element (section [2.2.4.20](#Section_14bd2bdb36414cb199a6728f5ea5befc)) for the presentation slide. This element MUST be present.

**Created:** Reserved. MUST be ignored.

**EditAnims:** An **ArrayOfEditAnimInfo** complex element (section [2.2.4.3](#Section_9f91e284c93c49eea6bcc8a52fb95126)) that specifies the list of animations on the slide.

**EditShapes: An ArrayOfEditShape** complex element (section [2.2.4.5](#Section_dff6cd008c224f2b80d5e7a1d5cd3cff)) that specifies the shapes of the presentation slide. This element MUST be present.

**EditTransition:** An **EditTransitionInfo** complex element (section [2.2.4.32](#Section_5c06fcde526d4ac691eb4440c19f64bd)) that specifies the slide transition.

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

**ID:** A **SlideID** (section [2.2.4.44](#Section_f8abaf101b2f4008bc760f05b42fc7d0)) that specifies the identifier of the presentation slide.

**IsTitleContentMaster:** A **boolean** that specifies whether the [**slide layout**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107) specified by **ContentMasterId** is a [**title master slide**](#gt_2b014bfb-d82f-41d9-9cd9-0101fd1b0c4e). This element MUST be present.

**MainMasterId:** An **unsignedInt** that specifies the identifier of the [**main master slide**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d) for this presentation slide. This element MUST be present.

**Notes:** A **Notes** complex element (section [2.2.4.37](#Section_a239527346a94a56aad6cf2a14e39e84)) that specifies the presentation notes for the presentation slide. This element MUST be present.

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

**Theme:** A **Theme** complex element (section [2.2.4.49](#Section_a80c682d7a9b4531a3f9c2f2068ebd33)) that specifies the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) for the presentation slide. This element MUST be present.

**ThumbnailViewElement:** A **ViewElement** complex element (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) that specifies the thumbnail of the presentation slide. This element MUST be present.

**ViewElems:** An **ArrayOfViewElement** complex element (section [2.2.4.14](#Section_55481e4b30854c5590689d6a26632488)) that specifies the **ViewElement** elements for slide content of the presentation slide. This element MUST be present.

#### EditSlideChanges

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

The **EditSlideChanges** complex type specifies the content of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

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

1. <xs:complexType name="EditSlideChanges" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3:ArrayOfComment"/>
4. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
5. <xs:element minOccurs="0" name="EditAnims" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
6. <xs:element minOccurs="0" name="EditTransition" nillable="true" type="tns3:EditTransitionInfo"/>
7. <xs:element minOccurs="0" name="Elems" nillable="true" type="tns3:ArrayOfViewElement"/>
8. <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
9. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
10. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
11. <xs:element minOccurs="0" name="ModifiedShapes" nillable="true" type="tns3:ArrayOfEditShape"/>
12. <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
13. <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
14. <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3:ViewElement"/>
15. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
16. </xs:sequence>
17. </xs:complexType>

**Comments:** An **ArrayOfComment** complex element (section [2.2.4.1](#Section_6f6913b6eb184c35ba7a4d77b2cb5b20)) that specifies [**comments**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) for the presentation slide.

**DelElems:** Reserved. MUST be ignored.

**EditAnims:** An **ArrayOfEditAnimInfo** complex element (section [2.2.4.3](#Section_9f91e284c93c49eea6bcc8a52fb95126)) that specifies the list of animations on the slide.

**EditTransition:** An **EditTransitionInfo** complex element (section [2.2.4.32](#Section_5c06fcde526d4ac691eb4440c19f64bd)) that specifies the slide transition.

**Elems:** An **ArrayOfViewElement** complex element (section [2.2.4.14](#Section_55481e4b30854c5590689d6a26632488)) that specifies the **ViewElement** complex elements (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) for slide content on the presentation slide.

**HasAnimationOrTransition:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that specifies whether the presentation slide has an animation or a transition.

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

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

**ModifiedShapes:** An **ArrayOfEditShape** complex element (section [2.2.4.5](#Section_dff6cd008c224f2b80d5e7a1d5cd3cff)) that specifies the shapes modified.

**Notes:** A **Notes** complex element (section [2.2.4.37](#Section_a239527346a94a56aad6cf2a14e39e84)) 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.

#### EditSlideInfoFe

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

The **EditSlideInfoFe** complex type specifies information about a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

1. <xs:complexType name="EditSlideInfoFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
4. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
5. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3:ViewElement"/>
7. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>

**HasAnimationOrTransition:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that specifies whether the presentation slide has an animation or a transition.

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

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

**Thumb:** A **ViewElement** complex element (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) that specifies the thumbnail of the presentation slide.

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

#### EditTransitionInfo

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

The **EditTransitionInfo** complex type[<31>](#Appendix_A_31" \o "Product behavior note 31) specifies a slide transition.

1. <xs:complexType name="EditTransitionInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="Duration" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="IsManualAdvance" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="TransitionType" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>

**Direction:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### FontSizeMapping

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

Reserved; this element MUST be ignored.

1. <xs:complexType name="FontSizeMapping" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Size1" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="Size2" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="Size3" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="Size4" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="Size5" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="Size6" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="Size7" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </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.

#### Html

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

The **Html** complex type specifies [**HTML**](#gt_549c4960-e8be-4c24-bc2b-b86530f1c1bf) content.

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

**Text:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the HTML content.

#### MainMasterFe

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

The **MainMasterFe** complex type specifies a [**main master slide**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d).

1. <xs:complexType name="MainMasterFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="ContentMasters" nillable="true" type="tns3:ArrayOfContentMasterFe"/>
4. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="InContent" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="ThemeFamilyId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="VariantIndex" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>

**ContentMasters:** An **ArrayOfContentMasterFe** complex element (section [2.2.4.2](#Section_749111c845824e7589b3fa5a2dc83279)) that specifies [**slide layouts**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107).

**Id:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22) that specifies the identifier of the main master slide.

**InContent:** Reserved. MUST be ignored.

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

**ThemeFamilyId:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) 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.

#### MainMasterResourcesFe

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

Reserved. MUST be ignored.

1. <xs:complexType name="MainMasterResourcesFe" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="LineStyles" nillable="true" type="tns3:ArrayOfStyleGalleryItem"/>
4. <xs:element minOccurs="0" name="MasterId" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="ShapeStyles" nillable="true" type="tns3:ArrayOfStyleGalleryItem"/>
6. </xs:sequence>
7. </xs:complexType>

**LineStyles:** Reserved. MUST be ignored.

**MasterId:** Reserved. MUST be ignored.

**ShapeStyles:** Reserved. MUST be ignored.

#### Notes

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

The **Notes** complex type specifies the notes of a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

1. <xs:complexType name="Notes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Html" nillable="true" type="tns3:Html"/>
4. <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>

**Html:** An **Html** complex element (section [2.2.4.34](#Section_c76b94c6e97e47fbb887ff1e18b4b603)) that specifies the content of the notes.

**IsPrompt:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that specifies whether the notes is empty.

#### Point

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

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

1. <xs:complexType name="Point" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="X" type="xs:int"/>
4. <xs:element minOccurs="0" name="Y" type="xs:int"/>
5. </xs:sequence>
6. </xs:complexType>

**X:** An **int** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### PptViewingService.PrintResult

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

The **PptViewingService.PrintResult** complex type[<32>](#Appendix_A_32" \o "Product behavior note 32) specifies the result of a print operation.

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

**PrintUrl:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) element that specifies the [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for getting a printable version of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

#### PresetSchemeColorMapping

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

The **PresetSchemeColorMapping** complex type[<33>](#Appendix_A_33" \o "Product behavior note 33) specifies a set of colors in the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8).

1. <xs:complexType name="PresetSchemeColorMapping" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
4. <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
5. <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
6. <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
7. <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
8. <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
9. <xs:element minOccurs="0" name="Background1" nillable="true" type="tns3:ThemeColor"/>
10. <xs:element minOccurs="0" name="Background2" nillable="true" type="tns3:ThemeColor"/>
11. <xs:element minOccurs="0" name="Text1" nillable="true" type="tns3:ThemeColor"/>
12. <xs:element minOccurs="0" name="Text2" nillable="true" type="tns3:ThemeColor"/>
13. </xs:sequence>
14. </xs:complexType>

**Accent1:** A **ThemeColor** complex element (section [2.2.4.50](#Section_b6e6c92cc8ed4e04828a2620cf242e40)) 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.

#### Rectangle

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

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

1. <xs:complexType name="Rectangle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Bottom" type="xs:int"/>
4. <xs:element minOccurs="0" name="Left" type="xs:int"/>
5. <xs:element minOccurs="0" name="Right" type="xs:int"/>
6. <xs:element minOccurs="0" name="Top" type="xs:int"/>
7. </xs:sequence>
8. </xs:complexType>

**Bottom:** An **int** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### 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.

1. <xs:complexType name="ServiceError" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared" minOccurs="0" name="Code" type="tns1:ErrorCode"/>
4. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
5. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface" minOccurs="0" name="RecommendedActions" type="tns2:ClientActions"/>
6. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="Type" type="tns3:ServiceErrorType"/>
8. </xs:sequence>
9. </xs:complexType>

**Code:** Reserved. MUST be ignored.

**Message:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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](#Section_e125df52a9c841f89a80446fb632cc64)).

**RecommendedActions:** Reserved. MUST be ignored.

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

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

#### 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.

1. <xs:complexType name="ServiceResult" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Error" nillable="true" type="tns3:ServiceError"/>
4. <xs:element minOccurs="0" name="Result" nillable="true" type="xs:anyType"/>
5. </xs:sequence>
6. </xs:complexType>

**Error:** An optional **ServiceError** complex element (section [2.2.4.42](#Section_23d35324d34746639b4ace010e24e580)) 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]](https://go.microsoft.com/fwlink/?LinkId=90608)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.

#### SlideID

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

A complex type that SHOULD [<34>](#Appendix_A_34" \o "Product behavior note 34)identify a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

1. <xs:complexType name="SlideID" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Cid" type="xs:unsignedInt"/>
4. <xs:element minOccurs="0" name="Sid" type="xs:unsignedInt"/>
5. </xs:sequence>
6. </xs:complexType>

**Cid:**  An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### SlideIdList

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

The **SlideIdList** complex type specifies a list of identifiers for [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

1. <xs:complexType name="SlideIdList" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="SlideIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
4. </xs:sequence>
5. </xs:complexType>

**SlideIds:** An **ArrayOfunsignedInt** complex element (section [2.2.4.13](#Section_f42f1f2b60294566b76279a4516bb1b1)) that specifies the list of identifiers.

#### SlideUpdateInfo

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

Reserved. MUST be ignored.

1. <xs:complexType name="SlideUpdateInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="lsu" type="xs:dateTime"/>
5. <xs:element minOccurs="0" name="sid" type="tns3:SlideID"/>
6. </xs:sequence>
7. </xs:complexType>

**leid:** Reserved. MUST be ignored.

**lsu:** Reserved. MUST be ignored.

**sid:** Reserved. MUST be ignored.

#### SmartArtInfo

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

The **SmartArtInfo** complex type specifies information about a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram.

1. <xs:complexType name="SmartArtInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="fReverseChecked" type="xs:boolean"/>
4. <xs:element minOccurs="0" name="fReverseEnabled" type="xs:boolean"/>
5. </xs:sequence>
6. </xs:complexType>

**fReverseChecked:** A **boolean** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.2) that specifies whether the SmartArt diagram is reversed.

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

#### StyleGalleryItem

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

The **StyleGalleryItem** complex type[<35>](#Appendix_A_35" \o "Product behavior note 35) specifies a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) style.

1. <xs:complexType name="StyleGalleryItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Icon" nillable="true" type="tns3:ViewElement"/>
4. <xs:element minOccurs="0" name="StyleId" type="xs:unsignedInt"/>
5. </xs:sequence>
6. </xs:complexType>

**Icon:** A **ViewElement** complex element (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)) that specifies the style of the shape. This element MUST be present.

**StyleId:** An **unsignedInt** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.3.22) that specifies the type of the shape style. This element MUST be present.

#### Theme

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

The **Theme** complex type specifies information about a [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8).

1. <xs:complexType name="Theme" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
4. <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
5. <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
6. <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
7. <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
8. <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
9. <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns3:ThemeColor"/>
10. <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns3:ThemeColor"/>
11. <xs:element minOccurs="0" name="Light1" nillable="true" type="tns3:ThemeColor"/>
12. <xs:element minOccurs="0" name="Light2" nillable="true" type="tns3:ThemeColor"/>
13. <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true" type="tns3:PresetSchemeColorMapping"/>
14. </xs:sequence>
15. </xs:complexType>

**Accent1:** A **ThemeColor** complex element (section [2.2.4.50](#Section_b6e6c92cc8ed4e04828a2620cf242e40)) that defines the first accent color in the theme.

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

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

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

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

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

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

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

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

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

**PresetSchemeColorMapping:** A **PresetSchemeColorMapping** complex element (section [2.2.4.40](#Section_d3815f949834419da2673e30155c6f07)) that defines a set of colors in the theme.

#### 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.

1. <xs:complexType name="ThemeColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="b" type="xs:unsignedByte"/>
4. <xs:element minOccurs="0" name="g" type="xs:unsignedByte"/>
5. <xs:element minOccurs="0" name="r" type="xs:unsignedByte"/>
6. </xs:sequence>
7. </xs:complexType>

**b:** An **unsignedByte** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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.

#### ViewElement

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

The **ViewElement** complex type specifies a visual representation of [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) content.

1. <xs:complexType name="ViewElement" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="Clip" nillable="true" type="tns3:ClippingInfo"/>
5. <xs:element minOccurs="0" name="Html" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="ImgId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="Position" nillable="true" type="tns3:Point"/>
9. <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>

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

**Clip:** A **ClipppingInfo** complex element (section [2.2.4.16](#Section_95af3e9d8ec045ebbf4b7a30d67cea60)) that specifies the region within the image. This element MUST be present.

**Html:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) 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>](#Appendix_A_36" \o "Product behavior note 36)

**Position:** A **Point** complex element (section [2.2.4.38](#Section_10c2d5bbb5ac493e88aa96e71282a80e)) that specifies the position.

**Z:** An **unsignedInt** that specifies the [**z-order**](#gt_5d059b23-337a-4ab8-82f5-e3789b2e7ae9).

### Simple Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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. |

#### 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.

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

#### ClientActions

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

Reserved. MUST be ignored.

1. <xs:simpleType name="ClientActions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="Dismiss"/>
7. <xs:enumeration value="Close"/>
8. <xs:enumeration value="OpenInClient"/>
9. <xs:enumeration value="Refresh"/>
10. </xs:restriction>
11. </xs:simpleType>
12. </xs:list>
13. </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. |

#### 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.

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

#### ErrorCode

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

Reserved. MUST be ignored.

1. <xs:simpleType name="ErrorCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="ErrorRESERVEDSuccess"/>
4. <xs:enumeration value="ErrorRESERVEDUnknown"/>
5. <xs:enumeration value="ErrorCannotOpenDocumentFileType"/>
6. <xs:enumeration value="ErrorCannotOpenDocumentIRM"/>
7. <xs:enumeration value="ErrorCannotOpenDocumentPassword"/>
8. <xs:enumeration value="ErrorCannotOpenDocument"/>
9. <xs:enumeration value="ErrorCannotInstallFonts"/>
10. <xs:enumeration value="ErrorCannotConvertModifyPassword"/>
11. <xs:enumeration value="ErrorCannotComposeSlideParse"/>
12. <xs:enumeration value="ErrorCannotComposeSlideUnexpected"/>
13. <xs:enumeration value="ErrorWacConversionFailure"/>
14. <xs:enumeration value="ErrorResourceNotGenerated"/>
15. <xs:enumeration value="ErrorGenericSlideCorruption"/>
16. <xs:enumeration value="ErrorFileNotFound"/>
17. <xs:enumeration value="ErrorGeneralUnknown"/>
18. <xs:enumeration value="ErrorFailedToOpenDocument"/>
19. <xs:enumeration value="ErrorFailedToRetrieveResource"/>
20. <xs:enumeration value="ErrorFailedToRenderDocument"/>
21. <xs:enumeration value="ErrorFailedToRenderSlide"/>
22. <xs:enumeration value="ErrorFailedToSaveDocument"/>
23. <xs:enumeration value="ErrorCannotSaveDocument"/>
24. <xs:enumeration value="ErrorInvalidCommand"/>
25. <xs:enumeration value="ErrorDocVersionMismatch"/>
26. <xs:enumeration value="ErrorCannotAcquirePptEditLock"/>
27. <xs:enumeration value="ErrorRequiresCheckout"/>
28. <xs:enumeration value="ErrorLockedForOfflineCheckout"/>
29. <xs:enumeration value="ErrorLockedByAnotherUser"/>
30. <xs:enumeration value="ErrorAccessDenied"/>
31. <xs:enumeration value="ErrorNoLicense"/>
32. <xs:enumeration value="ErrorRequestTooBig"/>
33. <xs:enumeration value="ErrorTextTooBig"/>
34. <xs:enumeration value="ErrorTryAgain"/>
35. <xs:enumeration value="ErrorUnexpected"/>
36. <xs:enumeration value="ErrorCannotOpenDocumentMacro"/>
37. <xs:enumeration value="ErrorCannotOpenDocumentFinal"/>
38. <xs:enumeration value="ErrorCannotOpenDocumentSigned"/>
39. <xs:enumeration value="ErrorCannotOpenEmbeddedFonts"/>
40. <xs:enumeration value="ErrorNoAvailableEditAppServer"/>
41. <xs:enumeration value="ErrorServiceUnavailable"/>
42. <xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
43. <xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
44. <xs:enumeration value="ErrorCannotOpenDocumentGatekeeperFailure"/>
45. <xs:enumeration value="ErrorEditWorkerTimeout"/>
46. <xs:enumeration value="ErrorEditSlideCorruption"/>
47. <xs:enumeration value="ErrorServiceBusy"/>
48. <xs:enumeration value="ErrorClipartCannotConnect"/>
49. <xs:enumeration value="ErrorClipartCannotDownload"/>
50. <xs:enumeration value="ErrorMediaNotEnabled"/>
51. <xs:enumeration value="ErrorUnsupportedMediaFormat"/>
52. <xs:enumeration value="ErrorLinkedMediaNotEnabled"/>
53. <xs:enumeration value="ErrorUnsupportedLinkTarget"/>
54. <xs:enumeration value="ErrorEmbeddedMediaNotEnabled"/>
55. <xs:enumeration value="ErrorEmbeddedMediaExceedsMaxSize"/>
56. <xs:enumeration value="ErrorTranscodingNotEnabled"/>
57. <xs:enumeration value="ErrorMediaUnavailable"/>
58. <xs:enumeration value="ErrorCannotOpenODPDocumentPassword"/>
59. <xs:enumeration value="ErrorLocalChangeLostDueToCoautherEdit"/>
60. <xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
61. <xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
62. <xs:enumeration value="ErrorInProgress"/>
63. <xs:enumeration value="ErrorImageTooLarge"/>
64. <xs:enumeration value="ErrorImageWrongFormat"/>
65. <xs:enumeration value="ErrorImageNoAccess"/>
66. <xs:enumeration value="ErrorWacItemRetrievalDocumentOutputNotFound"/>
67. <xs:enumeration value="ErrorWacItemRetrievalAccessDenied"/>
68. <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamDirty"/>
69. <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamClean"/>
70. <xs:enumeration value="ErrorWacItemRetrievalUnknownError"/>
71. <xs:enumeration value="ErrorWacConversionManagerDoesNotSupportThisRequest"/>
72. <xs:enumeration value="ErrorWacConversionCannotFindSourceDocument"/>
73. <xs:enumeration value="ErrorWacConversionWorkerException"/>
74. <xs:enumeration value="ErrorWacConversionWorkerCrashed"/>
75. <xs:enumeration value="ErrorWacConversionWorkerHung"/>
76. <xs:enumeration value="ErrorWacConversionUnknownResponse"/>
77. <xs:enumeration value="ErrorWacConversionUnknownError"/>
78. <xs:enumeration value="ErrorWacConversionFirstServerResult"/>
79. <xs:enumeration value="ErrorCannotOpenDocumentWrongExt"/>
80. <xs:enumeration value="ErrorCannotOpenDocumentStgDocFileCorrupt"/>
81. <xs:enumeration value="ErrorCannotOpenDocumentStgFileAlreadyExists"/>
82. <xs:enumeration value="ErrorCannotOpenDocumentMmcfPackagePartNotFound"/>
83. <xs:enumeration value="ErrorCannotOpenDocumentArchiveError"/>
84. <xs:enumeration value="ErrorCannotPastePictureCannotCreateUrl"/>
85. <xs:enumeration value="ErrorCannotPastePictureInvalidResponse"/>
86. <xs:enumeration value="ErrorCannotPastePictureNotFound"/>
87. <xs:enumeration value="ErrorCannotPastePictureResponseEmpty"/>
88. <xs:enumeration value="ErrorCannotPastePictureUnexpectedStatusCode"/>
89. <xs:enumeration value="ErrorCannotPastePictureUnexpectedWebException"/>
90. <xs:enumeration value="ErrorRESERVEDLastError"/>
91. </xs:restriction>
92. </xs:simpleType>

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

| Value | Meaning |
| --- | --- |
| ErrorRESERVEDSuccess | Reserved. MUST be ignored. |
| ErrorRESERVEDUnknown | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentFileType | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentIRM | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentPassword | Reserved. MUST be ignored. |
| ErrorCannotOpenDocument | Reserved. MUST be ignored. |
| ErrorCannotInstallFonts | Reserved. MUST be ignored. |
| ErrorCannotConvertModifyPassword | Reserved. MUST be ignored. |
| ErrorCannotComposeSlideParse | Reserved. MUST be ignored. |
| ErrorCannotComposeSlideUnexpected | Reserved. MUST be ignored. |
| ErrorWacConversionFailure | Reserved. MUST be ignored. |
| ErrorResourceNotGenerated | Reserved. MUST be ignored. |
| ErrorGenericSlideCorruption | Reserved. MUST be ignored. |
| ErrorFileNotFound | Reserved. MUST be ignored. |
| ErrorGeneralUnknown | Reserved. MUST be ignored. |
| ErrorFailedToOpenDocument | Reserved. MUST be ignored. |
| ErrorFailedToRetrieveResource | Reserved. MUST be ignored. |
| ErrorFailedToRenderDocument | Reserved. MUST be ignored. |
| ErrorFailedToRenderSlide | Reserved. MUST be ignored. |
| ErrorFailedToSaveDocument | Reserved. MUST be ignored. |
| ErrorCannotSaveDocument | Reserved. MUST be ignored. |
| ErrorInvalidCommand | Reserved. MUST be ignored. |
| ErrorDocVersionMismatch | Reserved. MUST be ignored. |
| ErrorCannotAcquirePptEditLock | Reserved. MUST be ignored. |
| ErrorRequiresCheckout | Reserved. MUST be ignored. |
| ErrorLockedForOfflineCheckout | Reserved. MUST be ignored. |
| ErrorLockedByAnotherUser | Reserved. MUST be ignored. |
| ErrorAccessDenied | Reserved. MUST be ignored. |
| ErrorNoLicense | Reserved. MUST be ignored. |
| ErrorRequestTooBig | Reserved. MUST be ignored. |
| ErrorTextTooBig | Reserved. MUST be ignored. |
| ErrorTryAgain | Reserved. MUST be ignored. |
| ErrorUnexpected | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentMacro | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentFinal | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentSigned | Reserved. MUST be ignored. |
| ErrorCannotOpenEmbeddedFonts | Reserved. MUST be ignored. |
| ErrorNoAvailableEditAppServer | Reserved. MUST be ignored. |
| ErrorServiceUnavailable | Reserved. MUST be ignored. |
| ErrorPptEditExistingExclusiveLock | Reserved. MUST be ignored. |
| ErrorPptEditCheckedOutByAnother | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentGatekeeperFailure | Reserved. MUST be ignored. |
| ErrorEditWorkerTimeout | Reserved. MUST be ignored. |
| ErrorEditSlideCorruption | Reserved. MUST be ignored. |
| ErrorServiceBusy | Reserved. MUST be ignored. |
| ErrorClipartCannotConnect | Reserved. MUST be ignored. |
| ErrorClipartCannotDownload | Reserved. MUST be ignored. |
| ErrorMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorUnsupportedMediaFormat | Reserved. MUST be ignored. |
| ErrorLinkedMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorUnsupportedLinkTarget | Reserved. MUST be ignored. |
| ErrorEmbeddedMediaNotEnabled | Reserved. MUST be ignored. |
| ErrorEmbeddedMediaExceedsMaxSize | Reserved. MUST be ignored. |
| ErrorTranscodingNotEnabled | Reserved. MUST be ignored. |
| ErrorMediaUnavailable | Reserved. MUST be ignored. |
| ErrorCannotOpenODPDocumentPassword | Reserved. MUST be ignored. |
| ErrorLocalChangeLostDueToCoautherEdit | Reserved. MUST be ignored. |
| ErrorNumberOfCoauthorsReachedMax | Reserved. MUST be ignored. |
| ErrorCannotAcquirePptEditSharedLock | Reserved. MUST be ignored. |
| ErrorInProgress | Reserved. MUST be ignored. |
| ErrorImageTooLarge | Reserved. MUST be ignored. |
| ErrorImageWrongFormat | Reserved. MUST be ignored. |
| ErrorImageNoAccess | Reserved. MUST be ignored. |
| ErrorWacItemRetrievalDocumentOutputNotFound | Reserved. MUST be ignored. |
| ErrorWacItemRetrievalAccessDenied | Reserved. MUST be ignored. |
| ErrorWacItemRetrievalCommunicationErrorStreamDirty | Reserved. MUST be ignored. |
| ErrorWacItemRetrievalCommunicationErrorStreamClean | Reserved. MUST be ignored. |
| ErrorWacItemRetrievalUnknownError | Reserved. MUST be ignored. |
| ErrorWacConversionManagerDoesNotSupportThisRequest | Reserved. MUST be ignored. |
| ErrorWacConversionCannotFindSourceDocument | Reserved. MUST be ignored. |
| ErrorWacConversionWorkerException | Reserved. MUST be ignored. |
| ErrorWacConversionWorkerCrashed | Reserved. MUST be ignored. |
| ErrorWacConversionWorkerHung | Reserved. MUST be ignored. |
| ErrorWacConversionUnknownResponse | Reserved. MUST be ignored. |
| ErrorWacConversionUnknownError | Reserved. MUST be ignored. |
| ErrorWacConversionFirstServerResult | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentWrongExt | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentStgDocFileCorrupt | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentStgFileAlreadyExists | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentMmcfPackagePartNotFound | Reserved. MUST be ignored. |
| ErrorCannotOpenDocumentArchiveError | Reserved. MUST be ignored. |
| ErrorCannotPastePictureCannotCreateUrl | Reserved. MUST be ignored. |
| ErrorCannotPastePictureInvalidResponse | Reserved. MUST be ignored. |
| ErrorCannotPastePictureNotFound | Reserved. MUST be ignored. |
| ErrorCannotPastePictureResponseEmpty | Reserved. MUST be ignored. |
| ErrorCannotPastePictureUnexpectedStatusCode | Reserved. MUST be ignored. |
| ErrorCannotPastePictureUnexpectedWebException | Reserved. MUST be ignored. |
| ErrorRESERVEDLastError | Reserved. MUST be ignored. |

#### 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.

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

#### 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.

1. <xs:simpleType name="ServiceErrorType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="UnknownError"/>
4. <xs:enumeration value="ApplicationError"/>
5. <xs:enumeration value="Timeout"/>
6. <xs:enumeration value="ServiceBusy"/>
7. <xs:enumeration value="SessionFull"/>
8. </xs:restriction>
9. </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. |

### Attributes

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute definitions.

### Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) group definitions.

### Attribute Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute group definitions.

# Protocol Details

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) 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.

## Server Details

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

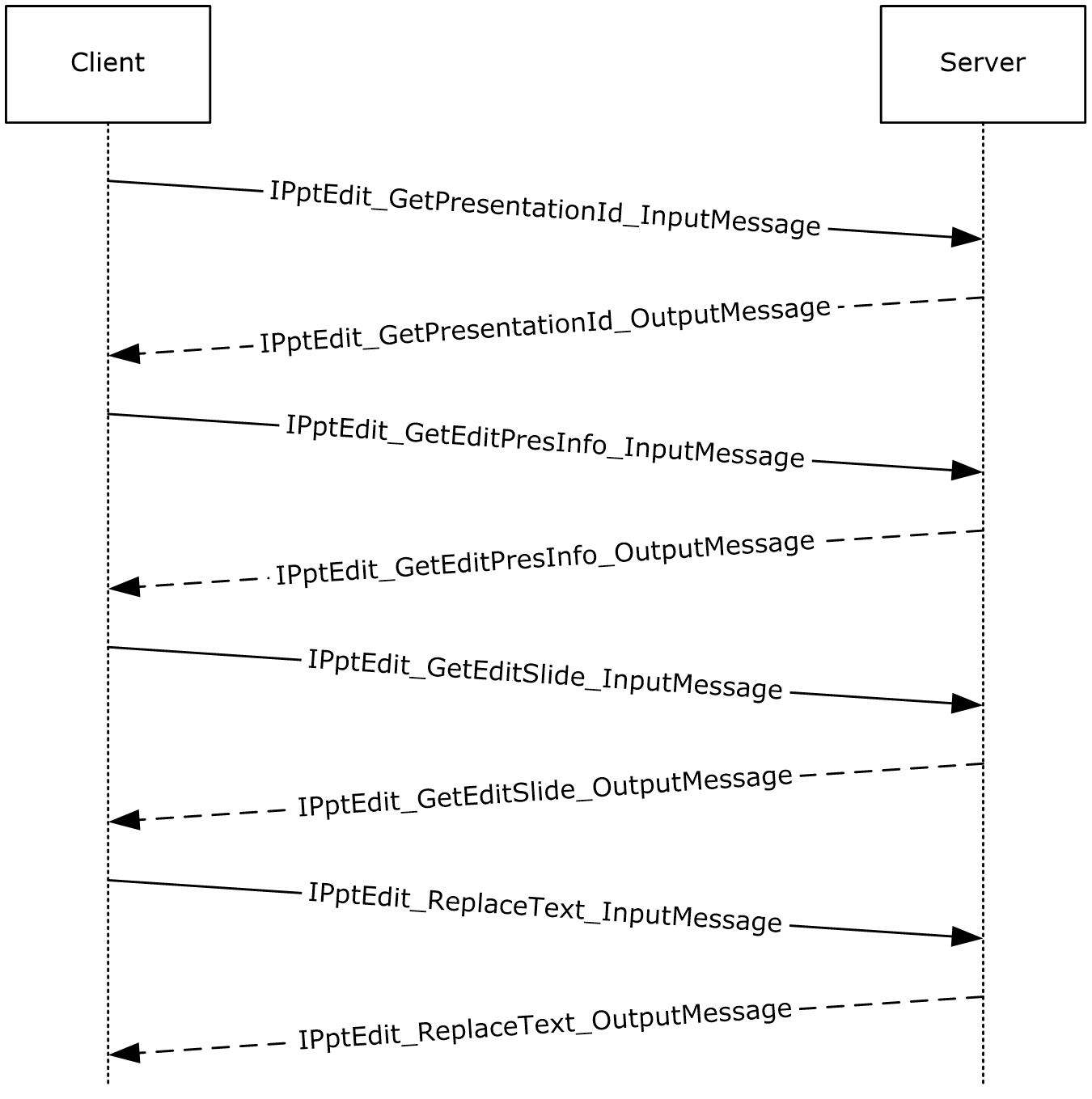


Figure 2: Sample communication between protocol client and protocol server

The protocol client sends the **IPptEdit\_GetPresentationId\_InputMessage** [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59) as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b) to obtain a valid identifier for a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae)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**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

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.

### 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.

### Timers

None.

### 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>](#Appendix_A_37" \o "Product behavior note 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>](#Appendix_A_38" \o "Product behavior note 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.

### 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>](#Appendix_A_39" \o "Product behavior note 39) be used to insert a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae). |
| **ApplyShapeFill** | The **ApplyShapeFill** operation SHOULD[<40>](#Appendix_A_40" \o "Product behavior note 40) be used to modify the color of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a presentation. |
| **ApplyShapeOutlineColor** | The **ApplyShapeOutlineColor** operation SHOULD[<41>](#Appendix_A_41" \o "Product behavior note 41) be used to modify the color of the outline of a shape in a presentation. |
| **ApplyShapeOutlineDashStyle** | The **ApplyShapeOutlineDashStyle** operation SHOULD[<42>](#Appendix_A_42" \o "Product behavior note 42) be used to modify the dash type of the outline of a shape. |
| **ApplyShapeOutlineEndStyle** | The **ApplyShapeOutlineEndStyle** operation SHOULD[<43>](#Appendix_A_43" \o "Product behavior note 43) be used to modify the end style of a line in a presentation. |
| **ApplyShapeOutlineWidth** | The **ApplyShapeOutlineWidth** operation SHOULD[<44>](#Appendix_A_44" \o "Product behavior note 44) be used to modify the width of the outline of a shape. |
| **ApplyShapeStyle** | The **ApplyShapeStyle** operation SHOULD[<45>](#Appendix_A_45" \o "Product behavior note 45) be used to apply a style to a shape in a presentation. |
| **ApplyTheme** | The **ApplyTheme** operation SHOULD[<46>](#Appendix_A_46" \o "Product behavior note 46) be used to change the theme applied to a presentation. |
| **ArrangeShape** | The **ArrangeShape** operation SHOULD[<47>](#Appendix_A_47" \o "Product behavior note 47) be used to rearrange a shape in a presentation. |
| **ChangeLayout** | The **ChangeLayout** operation is used to change the layout of a slide. |
| **ChangePictureStyle** | The **ChangePictureStyle** operation is used to change the style applied to a picture. |
| **ChangeSmartArtColor** | The **ChangeSmartArtColor** operation is used to change the color transform applied to a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) 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>](#Appendix_A_48" \o "Product behavior note 48) be used to delete a comment from a presentation. |
| **DeleteSlide** | The **DeleteSlide** operation is used to delete a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) from a presentation. |
| **DuplicateShape** | The **DuplicateShape** operation SHOULD[<49>](#Appendix_A_49" \o "Product behavior note 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>](#Appendix_A_50" \o "Product behavior note 50) be used to change the contents of a comment in a presentation |
| **FlipShape** | The **FlipShape** operation SHOULD[<51>](#Appendix_A_51" \o "Product behavior note 51) be used to flip a shape vertically or horizontally in a presentation. |
| **GetCoauthUpdates** | The **GetCoauthUpdates** operation SHOULD[<52>](#Appendix_A_52" \o "Product behavior note 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>](#Appendix_A_53" \o "Product behavior note 53) be used to retrieve information about a presentation. |
| **GetEditPresResources** | Reserved. MUST NOT be called. |
| **GetEditSlide** | The **GetEditSlide** operation is used to retrieve information about a presentation slide. |
| **GetPresentationId** | The **GetPresentationId** operation is used to retrieve an identifier for a presentation. |
| **InsertClipart** | The **InsertClipart** operation SHOULD[<54>](#Appendix_A_54" \o "Product behavior note 54) be used to insert a picture into a presentation. |
| **InsertShape** | The **InsertShape** operation SHOULD[<55>](#Appendix_A_55" \o "Product behavior note 55) be used to insert a shape in a presentation. |
| **InsertSlide** | The **InsertSlide** operation is used to insert a presentation slide into a presentation. |
| **InsertSmartArt** | The **InsertSmartArt** operation is used to insert a SmartArt diagram into a presentation |
| **LogULS** | Reserved. MUST NOT be called. |
| **MoveComment** | The **MoveComment** operation SHOULD[<56>](#Appendix_A_56" \o "Product behavior note 56) be used to change the position of a comment in a presentation. |
| **MoveShape** | The **MoveShape** operation SHOULD[<57>](#Appendix_A_57" \o "Product behavior note 57) be used to move a shape in a presentation. |
| **MoveSlide** | The **MoveSlide** operation is used to move a presentation slide in a presentation. |
| **PastePicture** | The **PastePicture** operation is used to paste a picture into a presentation. |
| **Print** | A **Print** operation SHOULD[<58>](#Appendix_A_58" \o "Product behavior note 58) be used to print a presentation. |
| **Redo** | The **Redo** operation is used to redo the last operation in a presentation that is undone. |
| **RemoveShapeFill** | The **RemoveShapeFill** operation SHOULD[<59>](#Appendix_A_59" \o "Product behavior note 59) be used to remove the color of a shape in a presentation. |
| **RemoveShapeOutline** | The **RemoveShapeOutline** operation SHOULD[<60>](#Appendix_A_60" \o "Product behavior note 60) be used to remove the outline of a shape in a presentation. |
| **ReorderAnimation** | The **ReorderAnimation** operation SHOULD[<61>](#Appendix_A_61" \o "Product behavior note 61) be used to reorder the animation of a shape in a presentation. |
| **ReplaceNotes** | The **ReplaceNotes** operation is used to replace presentation notes in a presentation. |
| **ReplaceText** | The **ReplaceText** operation is used to replace text in a shape in a presentation. |
| **ResetPicture** | The **ResetPicture** operation SHOULD[<62>](#Appendix_A_62" \o "Product behavior note 62) be used to remove all customizations on a picture in a presentation. |
| **ResetSmartArt** | The **ResetSmartArt** operation is used to remove all customizations on a SmartArt diagram in a presentation. |
| **ResizeShape** | The **ResizeShape** operation SHOULD[<63>](#Appendix_A_63" \o "Product behavior note 63) be used to resize a shape in a presentation. |
| **ReverseSmartArt** | The **ReverseSmartArt** operation is used to reverse the direction of a SmartArt diagram in a presentation. |
| **RotateShape** | The **RotateShape** operation SHOULD[<64>](#Appendix_A_64" \o "Product behavior note 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>](#Appendix_A_65" \o "Product behavior note 65) be used to apply an animation to a shape in a presentation. |
| **SetShapeAlignment** | The **SetShapeAlignment** operation is used to set the alignment of a shape. |
| **SetShapeBold** | The **SetShapeBold** operation is used to make the text in a shape bold. |
| **SetShapeBullet** | The **SetShapeBullet** operation is used to make the text in a shape into a bulleted list. |
| **SetShapeFontColor** | The **SetShapeFontColor** operation is used to set the font color of a shape. |
| **SetShapeFontName** | The **SetShapeFontName** operation is used to set the font name for text for a shape. |
| **SetShapeFontSize** | The **SetShapeFontSize** operation is used to set the font size for text for a shape. |
| **SetShapeItalic** | The **SetShapeItalic** operation is used to italicize the text for a shape. |
| **SetShapeTextDirection** | The **SetShapeTextDirection** operation is used to set the text direction for a shape. |
| **SetShapeUnderline** | The **SetShapeUnderline** operation is used to underline text in a shape. |
| **SetTransition** | The **SetTransition** operation SHOULD[<66>](#Appendix_A_66" \o "Product behavior note 66) be used to apply a transition to a [**slide**](#gt_dd8a2def-ebde-4fc7-b420-6e837b2059cc) in a presentation. |
| **SetTransitionApplyAll** | The **SetTransitionApplyAll** operation SHOULD[<67>](#Appendix_A_67" \o "Product behavior note 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>](#Appendix_A_68" \o "Product behavior note 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>](#Appendix_A_69" \o "Product behavior note 69) be used to ungroup a shape in a presentation. |
| **UpdateCanary** | Reserved. MUST be ignored. |

#### AddComment

The **AddComment** operation SHOULD[<70>](#Appendix_A_70" \o "Product behavior note 70) be used to insert a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="AddComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddComment" message="tns:IPptEdit\_AddComment\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddCommentResponse" message="tns:IPptEdit\_AddComment\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_AddComment\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_AddComment\_OutputMessage** response message

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_AddComment\_InputMessage** | The request WSDL message for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_AddComment\_OutputMessage** | The response WSDL message for the **AddComment** WSDL operation. |

###### IPptEdit\_AddComment\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddComment

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddComment** element.

###### IPptEdit\_AddComment\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **AddCommentResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **AddComment** | The input data for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **AddCommentResponse** | The result data for the **AddComment** WSDL operation. |

###### AddComment

The **AddComment** element specifies the input data for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="timeZoneBias" type="xs:int"/>
8. <xs:element minOccurs="0" name="parentAuthor" type="xs:int"/>
9. <xs:element minOccurs="0" name="parentIndex" type="xs:int"/>
10. <xs:element minOccurs="0" name="fHasPos" type="xs:boolean"/>
11. <xs:element minOccurs="0" name="x" type="xs:int"/>
12. <xs:element minOccurs="0" name="y" type="xs:int"/>
13. </xs:sequence>
14. </xs:complexType>
15. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

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

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

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

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

###### AddCommentResponse

The **AddCommentResponse** element specifies the result data for the **AddComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="AddCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="AddCommentResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**AddCommentResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeFill

The **ApplyShapeFill** operation SHOULD[<71>](#Appendix_A_71" \o "Product behavior note 71) be used to modify the color of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeFill" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFill" message="tns:IPptEdit\_ApplyShapeFill\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFillResponse" message="tns:IPptEdit\_ApplyShapeFill\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeFill\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeFill\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeFill\_InputMessage** | The request WSDL message for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeFill\_OutputMessage** | The response WSDL message for the **ApplyShapeFill** WSDL operation. |

###### IPptEdit\_ApplyShapeFill\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFill

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeFill** element.

###### IPptEdit\_ApplyShapeFill\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeFillResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeFill** | The input data for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeFillResponse** | The result data for the **ApplyShapeFill** WSDL operation. |

###### ApplyShapeFill

The **ApplyShapeFill** element specifies the input data for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeFill" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
9. <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
10. <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

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

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

###### ApplyShapeFillResponse

The **ApplyShapeFillResponse** element specifies the result data for the **ApplyShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeFillResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeFillResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeOutlineColor

The **ApplyShapeOutlineColor** operation SHOULD[<72>](#Appendix_A_72" \o "Product behavior note 72) be used to modify the color of the outline of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeOutlineColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColor" message="tns:IPptEdit\_ApplyShapeOutlineColor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColorResponse" message="tns:IPptEdit\_ApplyShapeOutlineColor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeOutlineColor\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeOutlineColor\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeOutlineColor\_InputMessage** | The request WSDL message for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeOutlineColor\_OutputMessage** | The response WSDL message for the **ApplyShapeOutlineColor** WSDL operation. |

###### IPptEdit\_ApplyShapeOutlineColor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineColor** element.

###### IPptEdit\_ApplyShapeOutlineColor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineColorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeOutlineColor** | The input data for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeOutlineColorResponse** | The result data for the **ApplyShapeOutlineColor** WSDL operation. |

###### ApplyShapeOutlineColor

The **ApplyShapeOutlineColor** element specifies the input data for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
9. <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
10. <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the shape that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

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

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

###### ApplyShapeOutlineColorResponse

The **ApplyShapeOutlineColorResponse** element specifies the result data for the **ApplyShapeOutlineColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineColorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineColorResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeOutlineColorResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeOutlineDashStyle

The **ApplyShapeOutlineDashStyle** operation SHOULD[<73>](#Appendix_A_73" \o "Product behavior note 73) be used to modify the dash type of the outline of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeOutlineDashStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle" message="tns:IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyleResponse" message="tns:IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage** | The request WSDL message for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage** | The response WSDL message for the **ApplyShapeOutlineDashStyle** WSDL operation. |

###### IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineDashStyle** element.

###### IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineDashStyleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeOutlineDashStyle** | The input data for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeOutlineDashStyleResponse** | The result data for the **ApplyShapeOutlineDashStyle** WSDL operation. |

###### ApplyShapeOutlineDashStyle

The **ApplyShapeOutlineDashStyle** element specifies the input data for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineDashStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="dashType" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ApplyShapeOutlineDashStyleResponse

The **ApplyShapeOutlineDashStyleResponse** element specifies the result data for the **ApplyShapeOutlineDashStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineDashStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeOutlineDashStyleResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeOutlineEndStyle

The **ApplyShapeOutlineEndStyle** operation SHOULD[<74>](#Appendix_A_74" \o "Product behavior note 74) be used to modify the end style of a line in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeOutlineEndStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle" message="tns:IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyleResponse" message="tns:IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage** | The request WSDL message for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage** | The response WSDL message for the **ApplyShapeOutlineEndStyle** WSDL operation. |

###### IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineEndStyle** element.

###### IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineEndStyleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeOutlineEndStyle** | The input data for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeOutlineEndStyleResponse** | The result data for the **ApplyShapeOutlineEndStyle** WSDL operation. |

###### ApplyShapeOutlineEndStyle

The **ApplyShapeOutlineEndStyle** element specifies the input data for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineEndStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="headEndType" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="tailEndType" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the line that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the line that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

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

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

###### ApplyShapeOutlineEndStyleResponse

The **ApplyShapeOutlineEndStyleResponse** element specifies the result data for the **ApplyShapeOutlineEndStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineEndStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeOutlineEndStyleResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeOutlineWidth

The **ApplyShapeOutlineWidth** operation SHOULD[<75>](#Appendix_A_75" \o "Product behavior note 75) be used to modify the width of the outline of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeOutlineWidth" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidth" message="tns:IPptEdit\_ApplyShapeOutlineWidth\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidthResponse" message="tns:IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeOutlineWidth\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeOutlineWidth\_InputMessage** | The request WSDL message for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage** | The response WSDL message for the **ApplyShapeOutlineWidth** WSDL operation. |

###### IPptEdit\_ApplyShapeOutlineWidth\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidth

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineWidth** element.

###### IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeOutlineWidthResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeOutlineWidth** | The input data for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeOutlineWidthResponse** | The result data for the **ApplyShapeOutlineWidth** WSDL operation. |

###### ApplyShapeOutlineWidth

The **ApplyShapeOutlineWidth** element specifies the input data for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineWidth" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="width" type="xs:double"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

###### ApplyShapeOutlineWidthResponse

The **ApplyShapeOutlineWidthResponse** element specifies the result data for the **ApplyShapeOutlineWidth** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeOutlineWidthResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineWidthResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeOutlineWidthResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyShapeStyle

The **ApplyShapeStyle** operation SHOULD[<76>](#Appendix_A_76" \o "Product behavior note 76) be used to apply a style to a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyShapeStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyle" message="tns:IPptEdit\_ApplyShapeStyle\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyleResponse" message="tns:IPptEdit\_ApplyShapeStyle\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyShapeStyle\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyShapeStyle\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyShapeStyle\_InputMessage** | The request WSDL message for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyShapeStyle\_OutputMessage** | The response WSDL message for the **ApplyShapeStyle** WSDL operation. |

###### IPptEdit\_ApplyShapeStyle\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyle

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeStyle** element.

###### IPptEdit\_ApplyShapeStyle\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyShapeStyleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyShapeStyle** | The input data for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyShapeStyleResponse** | The result data for the **ApplyShapeStyle** WSDL operation. |

###### ApplyShapeStyle

The **ApplyShapeStyle** element specifies the input data for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="styleId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

###### ApplyShapeStyleResponse

The **ApplyShapeStyleResponse** element specifies the result data for the **ApplyShapeStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyShapeStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeStyleResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyShapeStyleResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)) element.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ApplyTheme

The **ApplyTheme** operation SHOULD[<77>](#Appendix_A_77" \o "Product behavior note 77) be used to change the theme applied to a presentation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ApplyTheme" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyTheme" message="tns:IPptEdit\_ApplyTheme\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyThemeResponse" message="tns:IPptEdit\_ApplyTheme\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ApplyTheme\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ApplyTheme\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ApplyTheme\_InputMessage** | The request WSDL message for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ApplyTheme\_OutputMessage** | The response WSDL message for the **ApplyTheme** WSDL operation. |

###### IPptEdit\_ApplyTheme\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyTheme

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyTheme** element.

###### IPptEdit\_ApplyTheme\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ApplyThemeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ApplyTheme** | The input data for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ApplyThemeResponse** | The result data for the **ApplyTheme** WSDL operation. |

###### ApplyTheme

The **ApplyTheme** element specifies the input data for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyTheme" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="themeFamilyId" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="variantIndex" type="xs:int"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**themeFamilyId:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the [**theme**](#gt_8b5eb4c0-949b-47d9-8b63-b9bda81d61b8) 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.

###### ApplyThemeResponse

The **ApplyThemeResponse** element specifies the result data for the **ApplyTheme** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ApplyThemeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyThemeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ApplyThemeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ArrangeShape

The **ArrangeShape** operation SHOULD[<78>](#Appendix_A_78" \o "Product behavior note 78) be used to rearrange a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ArrangeShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShape" message="tns:IPptEdit\_ArrangeShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShapeResponse" message="tns:IPptEdit\_ArrangeShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ArrangeShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ArrangeShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ArrangeShape\_InputMessage** | The request WSDL message for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ArrangeShape\_OutputMessage** | The response WSDL message for the **ArrangeShape** WSDL operation. |

###### IPptEdit\_ArrangeShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ArrangeShape** element.

###### IPptEdit\_ArrangeShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ArrangeShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ArrangeShape** | The input data for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ArrangeShapeResponse** | The result data for the **ArrangeShape** WSDL operation. |

###### ArrangeShape

The **ArrangeShape** element specifies the input data for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ArrangeShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="orderMode" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ArrangeShapeResponse

The **ArrangeShapeResponse** element specifies the result data for the **ArrangeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ArrangeShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ArrangeShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ArrangeShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangeLayout

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

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ChangeLayout" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayout" message="tns:IPptEdit\_ChangeLayout\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayoutResponse" message="tns:IPptEdit\_ChangeLayout\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ChangeLayout\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ChangeLayout\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ChangeLayout\_InputMessage** | The request WSDL message for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ChangeLayout\_OutputMessage** | The response WSDL message for the **ChangeLayout** WSDL operation. |

###### IPptEdit\_ChangeLayout\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayout

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeLayout** element.

###### IPptEdit\_ChangeLayout\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeLayoutResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeLayout** | The input data for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ChangeLayoutResponse** | The result data for the **ChangeLayout** WSDL operation. |

###### ChangeLayout

The **ChangeLayout** element specifies the input data for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeLayout" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**mainMasterId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier for the [**main master slide**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d) of the presentation slideasspecified by **ST\_SlideMasterId** ([ISO/IEC29500-1:2016] section 19.7.16).

**contentMasterId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier for the [**slide layout**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107) of the presentation slideasspecified by **ST\_SlideLayoutId** ([ISO/IEC29500-1:2016] section 19.7.14).

###### ChangeLayoutResponse

The **ChangeLayoutResponse** element specifies the result data for the **ChangeLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeLayoutResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeLayoutResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ChangeLayoutResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangePictureStyle

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

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ChangePictureStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyle" message="tns:IPptEdit\_ChangePictureStyle\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyleResponse" message="tns:IPptEdit\_ChangePictureStyle\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ChangePictureStyle\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ChangePictureStyle\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ChangePictureStyle\_InputMessage** | The request WSDL message for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ChangePictureStyle\_OutputMessage** | The response WSDL message for the **ChangePictureStyle** WSDL operation. |

###### IPptEdit\_ChangePictureStyle\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyle

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangePictureStyle** element.

###### IPptEdit\_ChangePictureStyle\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangePictureStyleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangePictureStyle** | The input data for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ChangePictureStyleResponse** | The result data for the **ChangePictureStyle** WSDL operation. |

###### ChangePictureStyle

The **ChangePictureStyle** element specifies the input data for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangePictureStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="pictureStyleId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

###### ChangePictureStyleResponse

The **ChangePictureStyleResponse** element specifies the result data for the **ChangePictureStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangePictureStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangePictureStyleResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ChangePictureStyleResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangeSmartArtColor

The **ChangeSmartArtColor** operation is used to change the color transform applied to a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ChangeSmartArtColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColor" message="tns:IPptEdit\_ChangeSmartArtColor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColorResponse" message="tns:IPptEdit\_ChangeSmartArtColor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ChangeSmartArtColor\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ChangeSmartArtColor\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ChangeSmartArtColor\_InputMessage** | The request WSDL message for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ChangeSmartArtColor\_OutputMessage** | The response WSDL message for the **ChangeSmartArtColor** WSDL operation. |

###### IPptEdit\_ChangeSmartArtColor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtColor** element.

###### IPptEdit\_ChangeSmartArtColor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtColorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeSmartArtColor** | The input data for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ChangeSmartArtColorResponse** | The result data for the **ChangeSmartArtColor** WSDL operation. |

###### ChangeSmartArtColor

The **ChangeSmartArtColor** element specifies the input data for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="colorTransUri" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) where the color transform of the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram is changed, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) where the color transform of the SmartArt diagram is changed as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ChangeSmartArtColorResponse

The **ChangeSmartArtColorResponse** element specifies the result data for the **ChangeSmartArtColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtColorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtColorResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ChangeSmartArtColorResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangeSmartArtLayout

The **ChangeSmartArtLayout** operation is used to change the layout applied to a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ChangeSmartArtLayout" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtLayout" message="tns:IPptEdit\_ChangeSmartArtLayout\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse" message="tns:IPptEdit\_ChangeSmartArtLayout\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ChangeSmartArtLayout\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ChangeSmartArtLayout\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ChangeSmartArtLayout\_InputMessage** | The request WSDL message for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ChangeSmartArtLayout\_OutputMessage** | The response WSDL message for the **ChangeSmartArtLayout** WSDL operation. |

###### IPptEdit\_ChangeSmartArtLayout\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtLayout** element.

###### IPptEdit\_ChangeSmartArtLayout\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtLayoutResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeSmartArtLayout** | The input data for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ChangeSmartArtLayoutResponse** | The result data for the **ChangeSmartArtLayout** WSDL operation. |

###### ChangeSmartArtLayout

The **ChangeSmartArtLayout** element specifies the input data for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtLayout" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) where the layout of the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram is changed, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) where the layout of the SmartArt diagram is changed as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ChangeSmartArtLayoutResponse

The **ChangeSmartArtLayoutResponse** element specifies the result data for the **ChangeSmartArtLayout** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtLayoutResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtLayoutResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ChangeSmartArtLayoutResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ChangeSmartArtStyle

The **ChangeSmartArtStyle** operation is used to change the style applied to a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ChangeSmartArtStyle" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyle" message="tns:IPptEdit\_ChangeSmartArtStyle\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyleResponse" message="tns:IPptEdit\_ChangeSmartArtStyle\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ChangeSmartArtStyle\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ChangeSmartArtStyle\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ChangeSmartArtStyle\_InputMessage** | The request WSDL message for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ChangeSmartArtStyle\_OutputMessage** | The response WSDL message for the **ChangeSmartArtStyle** WSDL operation. |

###### IPptEdit\_ChangeSmartArtStyle\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyle

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtStyle** element.

###### IPptEdit\_ChangeSmartArtStyle\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ChangeSmartArtStyleResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ChangeSmartArtStyle** | The input data for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ChangeSmartArtStyleResponse** | The result data for the **ChangeSmartArtStyle** WSDL operation. |

###### ChangeSmartArtStyle

The **ChangeSmartArtStyle** element specifies the input data for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtStyle" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="styleUri" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) where the style of the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram is changed, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) where the style of the SmartArt diagram is changed as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ChangeSmartArtStyleResponse

The **ChangeSmartArtStyleResponse** element specifies the result data for the **ChangeSmartArtStyle** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ChangeSmartArtStyleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtStyleResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ChangeSmartArtStyleResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ClearPlaceholder

The **ClearPlaceholder** is used to delete a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ClearPlaceholder" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholder" message="tns:IPptEdit\_ClearPlaceholder\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholderResponse" message="tns:IPptEdit\_ClearPlaceholder\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ClearPlaceholder\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ClearPlaceholder\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ClearPlaceholder\_InputMessage** | The request WSDL message for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ClearPlaceholder\_OutputMessage** | The response WSDL message for the **ClearPlaceholder** WSDL operation. |

###### IPptEdit\_ClearPlaceholder\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholder

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearPlaceholder** element.

###### IPptEdit\_ClearPlaceholder\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ClearPlaceholderResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ClearPlaceholder** | The input data for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ClearPlaceholderResponse** | The result data for the **ClearPlaceholder** WSDL operation. |

###### ClearPlaceholder

The **ClearPlaceholder** element specifies the input data for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearPlaceholder" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the shape that is deleted, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is deleted as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### ClearPlaceholderResponse

The **ClearPlaceholderResponse** element specifies the result data for the **ClearPlaceholder** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ClearPlaceholderResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ClearPlaceholderResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ClearPlaceholderResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteComment

The **DeleteComment** operation SHOULD[<79>](#Appendix_A_79" \o "Product behavior note 79) be used to delete a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) from a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteComment" message="tns:IPptEdit\_DeleteComment\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteCommentResponse" message="tns:IPptEdit\_DeleteComment\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_DeleteComment\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_DeleteComment\_OutputMessage** response message

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_DeleteComment\_InputMessage** | The request WSDL message for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_DeleteComment\_OutputMessage** | The response WSDL message for the **DeleteComment** WSDL operation. |

###### IPptEdit\_DeleteComment\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteComment

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteComment** element.

###### IPptEdit\_DeleteComment\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteCommentResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteComment** | The input data for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteCommentResponse** | The result data for the **DeleteComment** WSDL operation. |

###### DeleteComment

The **DeleteComment** element specifies the input data for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) that is being deleted as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

###### DeleteCommentResponse

The **DeleteCommentResponse** element specifies the result data for the **DeleteComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DeleteCommentResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DeleteCommentResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteSlide

The **DeleteSlide** operation is used to delete a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) from a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlide" message="tns:IPptEdit\_DeleteSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlideResponse" message="tns:IPptEdit\_DeleteSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_DeleteSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_DeleteSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_DeleteSlide\_InputMessage** | The request WSDL message for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_DeleteSlide\_OutputMessage** | The response WSDL message for the **DeleteSlide** WSDL operation. |

###### IPptEdit\_DeleteSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteSlide** element.

###### IPptEdit\_DeleteSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteSlide** | The input data for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteSlideResponse** | The result data for the **DeleteSlide** WSDL operation. |

###### DeleteSlide

The **DeleteSlide** element specifies the input data for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) to delete as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

###### DeleteSlideResponse

The **DeleteSlideResponse** element specifies the result data for the **DeleteSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DeleteSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DeleteSlideResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DuplicateShape

The **DuplicateShape** operation SHOULD[<80>](#Appendix_A_80" \o "Product behavior note 80) be used to duplicate a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a presentation.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DuplicateShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShape" message="tns:IPptEdit\_DuplicateShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShapeResponse" message="tns:IPptEdit\_DuplicateShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_DuplicateShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_DuplicateShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_DuplicateShape\_InputMessage** | The request WSDL message for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_DuplicateShape\_OutputMessage** | The response WSDL message for the **DuplicateShape** WSDL operation. |

###### IPptEdit\_DuplicateShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DuplicateShape** element.

###### IPptEdit\_DuplicateShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DuplicateShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DuplicateShape** | The input data for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DuplicateShapeResponse** | The result data for the **DuplicateShape** WSDL operation. |

###### DuplicateShape

The **DuplicateShape** element specifies the input data for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DuplicateShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="cloneShapePosX" type="xs:int"/>
9. <xs:element minOccurs="0" name="cloneShapePosY" type="xs:int"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is duplicated, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**sourceSlideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that the formatting is copied from as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**sourceShapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that the formatting is copied from as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). The shape MUST NOT be a group, [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c), table, chart, or ActiveX shape.

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

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

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

###### DuplicateShapeResponse

The **DuplicateShapeResponse** element specifies the result data for the **DuplicateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DuplicateShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DuplicateShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DuplicateShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DuplicateSlide

The **DuplicateSlide** operation is used to duplicate a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DuplicateSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlide" message="tns:IPptEdit\_DuplicateSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlideResponse" message="tns:IPptEdit\_DuplicateSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_DuplicateSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_DuplicateSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_DuplicateSlide\_InputMessage** | The request WSDL message for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_DuplicateSlide\_OutputMessage** | The response WSDL message for the **DuplicateSlide** WSDL operation. |

###### IPptEdit\_DuplicateSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DuplicateSlide** element.

###### IPptEdit\_DuplicateSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DuplicateSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DuplicateSlide** | The input data for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DuplicateSlideResponse** | The result data for the **DuplicateSlide** WSDL operation. |

###### DuplicateSlide

The **DuplicateSlide** element specifies the input data for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DuplicateSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**srcId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) to duplicate as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### DuplicateSlideResponse

The **DuplicateSlideResponse** element specifies the result data for the **DuplicateSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DuplicateSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DuplicateSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**DuplicateSlideResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### EditComment

The **EditComment** operation SHOULD[<81>](#Appendix_A_81" \o "Product behavior note 81) be used to change the contents of a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae)

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="EditComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditComment" message="tns:IPptEdit\_EditComment\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditCommentResponse" message="tns:IPptEdit\_EditComment\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_EditComment\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_EditComment\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_EditComment\_InputMessage** | The request WSDL message for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_EditComment\_OutputMessage** | The response WSDL message for the **EditComment** WSDL operation. |

###### IPptEdit\_EditComment\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditComment

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **EditComment** element.

###### IPptEdit\_EditComment\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **EditCommentResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **EditComment** | The input data for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **EditCommentResponse** | The result data for the **EditComment** WSDL operation. |

###### EditComment

The **EditComment** element specifies the input data for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="EditComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### EditCommentResponse

The **EditCommentResponse** element specifies the result data for the **EditComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="EditCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="EditCommentResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**EditCommentResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### FlipShape

The **FlipShape** operation SHOULD[<82>](#Appendix_A_82" \o "Product behavior note 82) be used to flip a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) vertically or horizontally in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="FlipShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShape" message="tns:IPptEdit\_FlipShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShapeResponse" message="tns:IPptEdit\_FlipShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_FlipShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_FlipShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_FlipShape\_InputMessage** | The request WSDL message for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_FlipShape\_OutputMessage** | The response WSDL message for the **FlipShape** WSDL operation. |

###### IPptEdit\_FlipShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **FlipShape** element.

###### IPptEdit\_FlipShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **FlipShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **FlipShape** | The input data for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **FlipShapeResponse** | The result data for the **FlipShape** WSDL operation. |

###### FlipShape

The **FlipShape** element specifies the input data for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="FlipShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="fHorizontal" type="xs:boolean"/>
8. <xs:element minOccurs="0" name="fVertical" type="xs:boolean"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### FlipShapeResponse

The **FlipShapeResponse** element specifies the result data for the **FlipShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="FlipShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="FlipShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**FlipShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetCoauthUpdates

The **GetCoauthUpdates** operation SHOULD[<83>](#Appendix_A_83" \o "Product behavior note 83) be used to retrieve co-authoring state for a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetCoauthUpdates" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdates" message="tns:IPptEdit\_GetCoauthUpdates\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdatesResponse" message="tns:IPptEdit\_GetCoauthUpdates\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_GetCoauthUpdates\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_GetCoauthUpdates\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetCoauthUpdates\_InputMessage** | The request WSDL message for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetCoauthUpdates\_OutputMessage** | The response WSDL message for the **GetCoauthUpdates** WSDL operation. |

###### IPptEdit\_GetCoauthUpdates\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdates

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetCoauthUpdates** element.

###### IPptEdit\_GetCoauthUpdates\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetCoauthUpdatesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetCoauthUpdates** | The input data for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetCoauthUpdatesResponse** | The result data for the **GetCoauthUpdates** WSDL operation. |

###### GetCoauthUpdates

The **GetCoauthUpdates** element specifies the input data for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetCoauthUpdates" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="lastToken" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**lastToken:** Reserved. MUST be ignored.

###### GetCoauthUpdatesResponse

The **GetCoauthUpdatesResponse** element specifies the result data for the **GetCoauthUpdates** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetCoauthUpdatesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetCoauthUpdatesResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetCoauthUpdatesResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be a **CoauthUpdate** (section [2.2.4.18](#Section_2f1215e42a7144d59bf904d45b954446)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEditPresInfo

The **GetEditPresInfo** operation is used to retrieve information about a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEditPresInfo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfo" message="tns:IPptEdit\_GetEditPresInfo\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoResponse" message="tns:IPptEdit\_GetEditPresInfo\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_GetEditPresInfo\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_GetEditPresInfo\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetEditPresInfo\_InputMessage** | The request WSDL message for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetEditPresInfo\_OutputMessage** | The response WSDL message for the **GetEditPresInfo** WSDL operation. |

###### IPptEdit\_GetEditPresInfo\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfo

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresInfo** element.

###### IPptEdit\_GetEditPresInfo\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresInfoResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEditPresInfo** | The input data for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEditPresInfoResponse** | The result data for the **GetEditPresInfo** WSDL operation. |

###### GetEditPresInfo

The **GetEditPresInfo** element specifies the input data for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="includedEditSlideIndex" type="xs:int"/>
8. <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**firstSlideIndex:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the index of the first [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) 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.

###### GetEditPresInfoResponse

The **GetEditPresInfoResponse** element specifies the result data for the **GetEditPresInfo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresInfoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresInfoResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEditPresInfoResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditPresentationInfo** (section [2.2.4.26](#Section_f14fca82669f43029df18d74e7126888)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEditPresInfoGetEditSlideById

The **GetEditPresInfoGetEditSlideById** operation SHOULD[<84>](#Appendix_A_84" \o "Product behavior note 84) be used to retrieve information about a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEditPresInfoGetEditSlideById" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById" message="tns:IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse" message="tns:IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage** | The request WSDL message for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage** | The response WSDL message for the **GetEditPresInfoGetEditSlideById** WSDL operation. |

###### IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresInfoGetEditSlideById** element.

###### IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresInfoGetEditSlideByIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEditPresInfoGetEditSlideById** | The input data for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEditPresInfoGetEditSlideByIdResponse** | The result data for the **GetEditPresInfoGetEditSlideById** WSDL operation. |

###### GetEditPresInfoGetEditSlideById

The **GetEditPresInfoGetEditSlideById** element specifies the input data for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresInfoGetEditSlideById" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="includedEditSlideId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**firstSlideIndex:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the index of the first [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) 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.

###### GetEditPresInfoGetEditSlideByIdResponse

The **GetEditPresInfoGetEditSlideByIdResponse** element specifies the result data for the **GetEditPresInfoGetEditSlideById** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresInfoGetEditSlideByIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEditPresInfoGetEditSlideByIdResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditPresentationInfo** (section [2.2.4.26](#Section_f14fca82669f43029df18d74e7126888)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEditPresResources

Reserved. MUST NOT be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEditPresResources" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResources" message="tns:IPptEdit\_GetEditPresResources\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResourcesResponse" message="tns:IPptEdit\_GetEditPresResources\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

Reserved. MUST NOT be called.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetEditPresResources\_InputMessage** | The request WSDL message for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetEditPresResources\_OutputMessage** | The response WSDL message for the **GetEditPresResources** WSDL operation. |

###### IPptEdit\_GetEditPresResources\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResources

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresResources** element.

###### IPptEdit\_GetEditPresResources\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditPresResourcesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEditPresResources** | The input data for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEditPresResourcesResponse** | The result data for the **GetEditPresResources** WSDL operation. |

###### GetEditPresResources

The **GetEditPresResources** element specifies the input data for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresResources" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**presentationId:** Reserved. MUST be ignored.

###### GetEditPresResourcesResponse

The **GetEditPresResourcesResponse** element specifies the result data for the **GetEditPresResources** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditPresResourcesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresResourcesResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEditPresResourcesResult:** Reserved. MUST be ignored.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetEditSlide

The **GetEditSlide** operation is used to retrieve information about a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetEditSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlide" message="tns:IPptEdit\_GetEditSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlideResponse" message="tns:IPptEdit\_GetEditSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_GetEditSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_GetEditSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetEditSlide\_InputMessage** | The request WSDL message for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetEditSlide\_OutputMessage** | The response WSDL message for the **GetEditSlide** WSDL operation. |

###### IPptEdit\_GetEditSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditSlide** element.

###### IPptEdit\_GetEditSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetEditSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetEditSlide** | The input data for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetEditSlideResponse** | The result data for the **GetEditSlide** WSDL operation. |

###### GetEditSlide

The **GetEditSlide** element specifies the input data for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

###### GetEditSlideResponse

The **GetEditSlideResponse** element specifies the result data for the **GetEditSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetEditSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetEditSlideResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditSlide** (section [2.2.4.29](#Section_536b029b31804ae2906e06a1d726b04f)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetPresentationId

The **GetPresentationId** operation is used to retrieve an identifier for a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetPresentationId" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationId" message="tns:IPptEdit\_GetPresentationId\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationIdResponse" message="tns:IPptEdit\_GetPresentationId\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_GetPresentationId\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_GetPresentationId\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_GetPresentationId\_InputMessage** | The request WSDL message for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_GetPresentationId\_OutputMessage** | The response WSDL message for the **GetPresentationId** WSDL operation. |

###### IPptEdit\_GetPresentationId\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationId

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetPresentationId** element.

###### IPptEdit\_GetPresentationId\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetPresentationIdResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetPresentationId** | The input data for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetPresentationIdResponse** | The result data for the **GetPresentationId** WSDL operation. |

###### GetPresentationId

The **GetPresentationId** element specifies the input data for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetPresentationId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="rawDocId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="backendUriOverride" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**rawDocId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the [**absolute URL**](#gt_13085cf6-6745-4b49-be34-0d3901c36c85) to the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

**backendUriOverride:** Reserved. MUST be ignored.

###### GetPresentationIdResponse

The **GetPresentationIdResponse** element specifies the result data for the **GetPresentationId** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetPresentationIdResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetPresentationIdResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetPresentationIdResult:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the presentation.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### InsertClipart

The **InsertClipart** operation SHOULD[<85>](#Appendix_A_85" \o "Product behavior note 85) be used to insert a picture into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="InsertClipart" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipart" message="tns:IPptEdit\_InsertClipart\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipartResponse" message="tns:IPptEdit\_InsertClipart\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_InsertClipart\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_InsertClipart\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_InsertClipart\_InputMessage** | The request WSDL message for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_InsertClipart\_OutputMessage** | The response WSDL message for the **InsertClipart** WSDL operation. |

###### IPptEdit\_InsertClipart\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipart

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertClipart** element.

###### IPptEdit\_InsertClipart\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertClipartResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **InsertClipart** | The input data for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **InsertClipartResponse** | The result data for the **InsertClipart** WSDL operation. |

###### InsertClipart

The **InsertClipart** element specifies the input data for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertClipart" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="assetId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="Lcid" nillable="true" type="xs:string"/>
9. <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) into which the picture is inserted, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) into which the picture is inserted as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the [**placeholder**](#gt_25caffec-4e4b-4192-a04d-edcd14f0ec5f) shape into which the picture is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

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

**Lcid:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the [**language code identifier (LCID)**](#gt_c7f99c66-592f-4053-b62a-878c189653b6), as specified in [[MS-LCID]](%5bMS-LCID%5d.pdf#Section_70feba9f294e491eb6eb56532684c37f), of the picture.

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

###### InsertClipartResponse

The **InsertClipartResponse** element specifies the result data for the **InsertClipart** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertClipartResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertClipartResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**InsertClipartResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### InsertShape

The **InsertShape** operation SHOULD[<86>](#Appendix_A_86" \o "Product behavior note 86) be used to insert a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="InsertShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShape" message="tns:IPptEdit\_InsertShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShapeResponse" message="tns:IPptEdit\_InsertShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_InsertShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_InsertShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_InsertShape\_InputMessage** | The request WSDL message for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_InsertShape\_OutputMessage** | The response WSDL message for the **InsertShape** WSDL operation. |

###### IPptEdit\_InsertShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertShape** element.

###### IPptEdit\_InsertShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **InsertShape** | The input data for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **InsertShapeResponse** | The result data for the **InsertShape** WSDL operation. |

###### InsertShape

The **InsertShape** element specifies the input data for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeType" type="xs:int"/>
7. <xs:element minOccurs="0" name="shapeCtrPosX" type="xs:int"/>
8. <xs:element minOccurs="0" name="shapeCtrPosY" type="xs:int"/>
9. <xs:element minOccurs="0" name="shapeWidth" type="xs:double"/>
10. <xs:element minOccurs="0" name="shapeHeight" type="xs:double"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeType:** An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the type of the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) 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.

###### InsertShapeResponse

The **InsertShapeResponse** element specifies the result data for the **InsertShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**InsertShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### InsertSlide

The **InsertSlide** operation is used to insert a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="InsertSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlide" message="tns:IPptEdit\_InsertSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlideResponse" message="tns:IPptEdit\_InsertSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_InsertSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_InsertSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_InsertSlide\_InputMessage** | The request WSDL message for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_InsertSlide\_OutputMessage** | The response WSDL message for the **InsertSlide** WSDL operation. |

###### IPptEdit\_InsertSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertSlide** element.

###### IPptEdit\_InsertSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **InsertSlide** | The input data for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **InsertSlideResponse** | The result data for the **InsertSlide** WSDL operation. |

###### InsertSlide

The **InsertSlide** element specifies the input data for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**dstId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) that precedes the location of the inserted slide. The value is zero or **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13). A value of zero indicates that no presentation slide precedes the location. In this case, the location of the inserted presentation slide will be the first slide of the presentation.

**mainMasterId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) specifies the identifier for the [**main master slide**](#gt_d8127c39-79db-47fc-bd66-6870bd1cc35d) of the inserted presentation slide asspecified by **ST\_SlideMasterId** ([ISO/IEC29500-1:2016] section 19.7.16).

**contentMasterId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier for the [**slide layout**](#gt_b9667f9b-1779-4d8f-bd72-a9c9e4974107) of the inserted presentation slide asspecified by **ST\_SlideLayoutId** ([ISO/IEC29500-1:2016] section 19.7.14).

###### InsertSlideResponse

The **InsertSlideResponse** element specifies the result data for the **InsertSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**InsertSlideResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### InsertSmartArt

The **InsertSmartArt** operation is used to insert a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae)

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="InsertSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArt" message="tns:IPptEdit\_InsertSmartArt\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArtResponse" message="tns:IPptEdit\_InsertSmartArt\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_InsertSmartArt\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_InsertSmartArt\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_InsertSmartArt\_InputMessage** | The request WSDL message for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_InsertSmartArt\_OutputMessage** | The response WSDL message for the **InsertSmartArt** WSDL operation. |

###### IPptEdit\_InsertSmartArt\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

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

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertSmartArt** element.

###### IPptEdit\_InsertSmartArt\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **InsertSmartArtResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **InsertSmartArt** | The input data for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **InsertSmartArtResponse** | The result data for the **InsertSmartArt** WSDL operation. |

###### InsertSmartArt

The **InsertSmartArt** element specifies the input data for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) into which the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram is inserted, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) into which the SmartArt diagram is inserted as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeId:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the [**placeholder**](#gt_25caffec-4e4b-4192-a04d-edcd14f0ec5f) shape into which the SmartArt diagram is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

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

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

###### InsertSmartArtResponse

The **InsertSmartArtResponse** element specifies the result data for the **InsertSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="InsertSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**InsertSmartArtResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### LogULS

Reserved. MUST NOT be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="LogULS" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULS" message="tns:IPptEdit\_LogULS\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULSResponse" message="tns:IPptEdit\_LogULS\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

Reserved. MUST NOT be called.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_LogULS\_InputMessage** | The request WSDL message for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_LogULS\_OutputMessage** | The response WSDL message for the **LogULS** WSDL operation. |

###### IPptEdit\_LogULS\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULS

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **LogULS** element.

###### IPptEdit\_LogULS\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **LogULSResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **LogULS** | The input data for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **LogULSResponse** | The result data for the **LogULS** WSDL operation. |

###### LogULS

The **LogULS** element specifies the input data for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="LogULS" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="tagID" type="xs:unsignedInt"/>
5. <xs:element minOccurs="0" name="level" type="xs:unsignedInt"/>
6. <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**tagID:** Reserved. MUST be ignored.

**level:**  Reserved. MUST be ignored.

**message:**  Reserved. MUST be ignored.

###### LogULSResponse

The **LogULSResponse** element specifies the result data for the **LogULS** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="LogULSResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="LogULSResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**LogULSResult:**  Reserved. MUST be ignored.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MoveComment

The **MoveComment** operation SHOULD[<87>](#Appendix_A_87" \o "Product behavior note 87) be used to change the position of a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MoveComment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveComment" message="tns:IPptEdit\_MoveComment\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveCommentResponse" message="tns:IPptEdit\_MoveComment\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_MoveComment\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_MoveComment\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_MoveComment\_InputMessage** | The request WSDL message for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_MoveComment\_OutputMessage** | The response WSDL message for the **MoveComment** WSDL operation. |

###### IPptEdit\_MoveComment\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveComment

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveComment** element.

###### IPptEdit\_MoveComment\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveCommentResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MoveComment** | The input data for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MoveCommentResponse** | The result data for the **MoveComment** WSDL operation. |

###### MoveComment

The **MoveComment** element specifies the input data for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveComment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="x" type="xs:double"/>
9. <xs:element minOccurs="0" name="y" type="xs:double"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

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

###### MoveCommentResponse

The **MoveCommentResponse** element specifies the result data for the **MoveComment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveCommentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveCommentResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MoveCommentResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MoveShape

The **MoveShape** operation SHOULD[<88>](#Appendix_A_88" \o "Product behavior note 88) be used to move a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MoveShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShape" message="tns:IPptEdit\_MoveShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShapeResponse" message="tns:IPptEdit\_MoveShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_MoveShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_MoveShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_MoveShape\_InputMessage** | The request WSDL message for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_MoveShape\_OutputMessage** | The response WSDL message for the **MoveShape** WSDL operation. |

###### IPptEdit\_MoveShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveShape** element.

###### IPptEdit\_MoveShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MoveShape** | The input data for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MoveShapeResponse** | The result data for the **MoveShape** WSDL operation. |

###### MoveShape

The **MoveShape** element specifies the input data for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="x" type="xs:double"/>
8. <xs:element minOccurs="0" name="y" type="xs:double"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### MoveShapeResponse

The **MoveShapeResponse** element specifies the result data for the **MoveShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MoveShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### MoveSlide

The **MoveSlide** operation is used to move a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="MoveSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlide" message="tns:IPptEdit\_MoveSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlideResponse" message="tns:IPptEdit\_MoveSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_MoveSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_MoveSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_MoveSlide\_InputMessage** | The request WSDL message for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_MoveSlide\_OutputMessage** | The response WSDL message for the **MoveSlide** WSDL operation. |

###### IPptEdit\_MoveSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveSlide** element.

###### IPptEdit\_MoveSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **MoveSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **MoveSlide** | The input data for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **MoveSlideResponse** | The result data for the **MoveSlide** WSDL operation. |

###### MoveSlide

The **MoveSlide** element specifies the input data for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the slide that is moved, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**srcId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) that is moved as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**dstId:** A **string** that specifies the identifier of the presentation slide that precedes the new location of the moved slide. The value is zero or an **ST\_SlideId** ([ISO/IEC29500-1:2016] section 19.7.13). A value of zero indicates that no presentation slide precedes the new location. In this case, the new location of the moved presentation slide is the first slide of the presentation.

###### MoveSlideResponse

The **MoveSlideResponse** element specifies the result data for the **MoveSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="MoveSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**MoveSlideResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### PastePicture

The **PastePicture** operation is used to paste a picture into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="PastePicture" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePicture" message="tns:IPptEdit\_PastePicture\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePictureResponse" message="tns:IPptEdit\_PastePicture\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_PastePicture\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_PastePicture\_OutputMessage** response message

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_PastePicture\_InputMessage** | The request WSDL message for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_PastePicture\_OutputMessage** | The response WSDL message for the **PastePicture** WSDL operation. |

###### IPptEdit\_PastePicture\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePicture

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **PastePicture** element.

###### IPptEdit\_PastePicture\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **PastePictureResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **PastePicture** | The input data for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **PastePictureResponse** | The result data for the **PastePicture** WSDL operation. |

###### PastePicture

The **PastePicture** element specifies the input data for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="PastePicture" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) into which the picture is inserted, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) into which the picture is inserted as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the [**placeholder**](#gt_25caffec-4e4b-4192-a04d-edcd14f0ec5f) shape into which the picture is inserted as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21).

**url:**  A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the location of the picture.

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

###### PastePictureResponse

The **PastePictureResponse** element specifies the result data for the **PastePicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="PastePictureResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="PastePictureResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**PastePictureResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Print

A **Print** operation SHOULD[<89>](#Appendix_A_89" \o "Product behavior note 89) be used to print a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Print" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Print" message="tns:IPptEdit\_Print\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PrintResponse" message="tns:IPptEdit\_Print\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_Print\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_Print\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_Print\_InputMessage** | The request WSDL message for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_Print\_OutputMessage** | The response WSDL message for the **Print** WSDL operation. |

###### IPptEdit\_Print\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Print

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Print** element.

###### IPptEdit\_Print\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **PrintResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Print** | The input data for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **PrintResponse** | The result data for the **Print** WSDL operation. |

###### Print

The **Print** element specifies the input data for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Print" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) to print, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

###### PrintResponse

The **PrintResponse** element specifies the result data for the **Print** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="PrintResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="PrintResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**PrintResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be a **PptViewingService.PrintResult** (section [2.2.4.39](#Section_f4513c59438a4ab982b222f0609019e8)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Redo

The **Redo** operation is used to redo the last operation in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) that is undone.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Redo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Redo" message="tns:IPptEdit\_Redo\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RedoResponse" message="tns:IPptEdit\_Redo\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_Redo\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_Redo\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_Redo\_InputMessage** | The request WSDL message for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_Redo\_OutputMessage** | The response WSDL message for the **Redo** WSDL operation. |

###### IPptEdit\_Redo\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Redo

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Redo** element.

###### IPptEdit\_Redo\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RedoResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Redo** | The input data for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RedoResponse** | The result data for the **Redo** WSDL operation. |

###### Redo

The **Redo** element specifies the input data for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Redo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

###### RedoResponse

The **RedoResponse** element specifies the result data for the **Redo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RedoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RedoResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**RedoResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveShapeFill

The **RemoveShapeFill** operation SHOULD[<90>](#Appendix_A_90" \o "Product behavior note 90) be used to remove the color of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveShapeFill" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFill" message="tns:IPptEdit\_RemoveShapeFill\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFillResponse" message="tns:IPptEdit\_RemoveShapeFill\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_RemoveShapeFill\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_RemoveShapeFill\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_RemoveShapeFill\_InputMessage** | The request WSDL message for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_RemoveShapeFill\_OutputMessage** | The response WSDL message for the **RemoveShapeFill** WSDL operation. |

###### IPptEdit\_RemoveShapeFill\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFill

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveShapeFill** element.

###### IPptEdit\_RemoveShapeFill\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveShapeFillResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveShapeFill** | The input data for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveShapeFillResponse** | The result data for the **RemoveShapeFill** WSDL operation. |

###### RemoveShapeFill

The **RemoveShapeFill** element specifies the input data for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveShapeFill" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### RemoveShapeFillResponse

The **RemoveShapeFillResponse** element specifies the result data for the **RemoveShapeFill** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveShapeFillResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RemoveShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**RemoveShapeFillResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)) element.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RemoveShapeOutline

The **RemoveShapeOutline** operation SHOULD[<91>](#Appendix_A_91" \o "Product behavior note 91) be used to remove the outline of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RemoveShapeOutline" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutline" message="tns:IPptEdit\_RemoveShapeOutline\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutlineResponse" message="tns:IPptEdit\_RemoveShapeOutline\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_RemoveShapeOutline\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_RemoveShapeOutline\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_RemoveShapeOutline\_InputMessage** | The request WSDL message for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_RemoveShapeOutline\_OutputMessage** | The response WSDL message for the **RemoveShapeOutline** WSDL operation. |

###### IPptEdit\_RemoveShapeOutline\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutline

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveShapeOutline** element.

###### IPptEdit\_RemoveShapeOutline\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RemoveShapeOutlineResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RemoveShapeOutline** | The input data for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RemoveShapeOutlineResponse** | The result data for the **RemoveShapeOutline** WSDL operation. |

###### RemoveShapeOutline

The **RemoveShapeOutline** element specifies the input data for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveShapeOutline" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### RemoveShapeOutlineResponse

The **RemoveShapeOutlineResponse** element specifies the result data for the **RemoveShapeOutline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RemoveShapeOutlineResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RemoveShapeOutlineResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**RemoveShapeOutlineResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReorderAnimation

The **ReorderAnimation** operation SHOULD[<92>](#Appendix_A_92" \o "Product behavior note 92) be used to reorder the animation of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReorderAnimation" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimation" message="tns:IPptEdit\_ReorderAnimation\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimationResponse" message="tns:IPptEdit\_ReorderAnimation\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ReorderAnimation\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ReorderAnimation\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ReorderAnimation\_InputMessage** | The request WSDL message for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ReorderAnimation\_OutputMessage** | The response WSDL message for the **ReorderAnimation** WSDL operation. |

###### IPptEdit\_ReorderAnimation\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimation

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReorderAnimation** element.

###### IPptEdit\_ReorderAnimation\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReorderAnimationResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReorderAnimation** | The input data for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReorderAnimationResponse** | The result data for the **ReorderAnimation** WSDL operation. |

###### ReorderAnimation

The **ReorderAnimation** element specifies the input data for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReorderAnimation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="fLater" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). The shape MUST have exactly one effect and that effect MUST exist on the main timeline.

**fLater:**  A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies whether to move the effect earlier or later in the timeline. If this value is true, the effect MUST NOT have the largest [**build identifier**](#gt_0748643f-8a66-42ea-959a-3acd533eedc5). If this value is false, the effect MUST NOT have the smallest build identifier.

###### ReorderAnimationResponse

The **ReorderAnimationResponse** element specifies the result data for the **ReorderAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReorderAnimationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReorderAnimationResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ReorderAnimationResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) element that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReplaceNotes

The **ReplaceNotes** operation is used to replace presentation notes in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReplaceNotes" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotes" message="tns:IPptEdit\_ReplaceNotes\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotesResponse" message="tns:IPptEdit\_ReplaceNotes\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ReplaceNotes\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ReplaceNotes\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ReplaceNotes\_InputMessage** | The request WSDL message for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ReplaceNotes\_OutputMessage** | The response WSDL message for the **ReplaceNotes** WSDL operation. |

###### IPptEdit\_ReplaceNotes\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotes

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReplaceNotes** element.

###### IPptEdit\_ReplaceNotes\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReplaceNotesResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReplaceNotes** | The input data for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReplaceNotesResponse** | The result data for the **ReplaceNotes** WSDL operation. |

###### ReplaceNotes

The **ReplaceNotes** element specifies the input data for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReplaceNotes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="newNotes" nillable="true" type="xs:string"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the text that is replaced, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the text that is replaced as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### ReplaceNotesResponse

The **ReplaceNotesResponse** element specifies the result data for the **ReplaceNotes** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReplaceNotesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReplaceNotesResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ReplaceNotesResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReplaceText

The **ReplaceText** operation is used to replace text in a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReplaceText" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceText" message="tns:IPptEdit\_ReplaceText\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceTextResponse" message="tns:IPptEdit\_ReplaceText\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ReplaceText\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ReplaceText\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ReplaceText\_InputMessage** | The request WSDL message for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ReplaceText\_OutputMessage** | The response WSDL message for the **ReplaceText** WSDL operation. |

###### IPptEdit\_ReplaceText\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceText

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReplaceText** element.

###### IPptEdit\_ReplaceText\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReplaceTextResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReplaceText** | The input data for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReplaceTextResponse** | The result data for the **ReplaceText** WSDL operation. |

###### ReplaceText

The **ReplaceText** element specifies the input data for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReplaceText" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="newText" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="partialEdit" type="xs:boolean"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the text that is replaced, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the text that is replaced as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### ReplaceTextResponse

The **ReplaceTextResponse** element specifies the result data for the **ReplaceText** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReplaceTextResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReplaceTextResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ReplaceTextResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ResetPicture

The **ResetPicture** operation SHOULD[<93>](#Appendix_A_93" \o "Product behavior note 93) be used to remove all customizations on a picture in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ResetPicture" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPicture" message="tns:IPptEdit\_ResetPicture\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPictureResponse" message="tns:IPptEdit\_ResetPicture\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ResetPicture\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ResetPicture\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ResetPicture\_InputMessage** | The request WSDL message for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ResetPicture\_OutputMessage** | The response WSDL message for the **ResetPicture** WSDL operation. |

###### IPptEdit\_ResetPicture\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPicture

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResetPicture** element.

###### IPptEdit\_ResetPicture\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResetPictureResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ResetPicture** | The input data for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ResetPictureResponse** | The result data for the **ResetPicture** WSDL operation. |

###### ResetPicture

The **ResetPicture** element specifies the input data for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResetPicture" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the picture that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### ResetPictureResponse

The **ResetPictureResponse** element specifies the result data for the **ResetPicture** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResetPictureResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResetPictureResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ResetPictureResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ResetSmartArt

The **ResetSmartArt** operation is used to remove all customizations on a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ResetSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArt" message="tns:IPptEdit\_ResetSmartArt\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArtResponse" message="tns:IPptEdit\_ResetSmartArt\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ResetSmartArt\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ResetSmartArt\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ResetSmartArt\_InputMessage** | The request WSDL message for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ResetSmartArt\_OutputMessage** | The response WSDL message for the **ResetSmartArt** WSDL operation. |

###### IPptEdit\_ResetSmartArt\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArt

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResetSmartArt** element.

###### IPptEdit\_ResetSmartArt\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResetSmartArtResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ResetSmartArt** | The input data for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ResetSmartArtResponse** | The result data for the **ResetSmartArt** WSDL operation. |

###### ResetSmartArt

The **ResetSmartArt** element specifies the input data for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResetSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram that is reset, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the SmartArt diagram that is reset as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### ResetSmartArtResponse

The **ResetSmartArtResponse** element specifies the result data for the **ResetSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResetSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResetSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ResetSmartArtResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ResizeShape

The **ResizeShape** operation SHOULD[<94>](#Appendix_A_94" \o "Product behavior note 94) be used to resize a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ResizeShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShape" message="tns:IPptEdit\_ResizeShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShapeResponse" message="tns:IPptEdit\_ResizeShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ResizeShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ResizeShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ResizeShape\_InputMessage** | The request WSDL message for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ResizeShape\_OutputMessage** | The response WSDL message for the **ResizeShape** WSDL operation. |

###### IPptEdit\_ResizeShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResizeShape** element.

###### IPptEdit\_ResizeShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ResizeShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ResizeShape** | The input data for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ResizeShapeResponse** | The result data for the **ResizeShape** WSDL operation. |

###### ResizeShape

The **ResizeShape** element specifies the input data for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResizeShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="deltaNorth" type="xs:double"/>
8. <xs:element minOccurs="0" name="deltaSouth" type="xs:double"/>
9. <xs:element minOccurs="0" name="deltaWest" type="xs:double"/>
10. <xs:element minOccurs="0" name="deltaEast" type="xs:double"/>
11. </xs:sequence>
12. </xs:complexType>
13. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**deltaNorth:**  A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the y coordinate of the line is offset by this value. Else the north edge of the shape is offset by this value.

**deltaSouth:** A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the start of the x coordinate of the line is offset by this value. Else the south edge of the shape is offset by this value.

**deltaWest:** A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the y coordinate of the line is offset by this value. Else the west edge of the shape is offset by this value.

**deltaEast:** A **double** ([XMLSCHEMA2] section 3.3.5) that specifies how the shape is resized. If the shape is a line, then the end of the x coordinate of the line is offset by this value. Else the east edge of the shape is offset by this value.

###### ResizeShapeResponse

The **ResizeShapeResponse** element specifies the result data for the **ResizeShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ResizeShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResizeShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ResizeShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ReverseSmartArt

The **ReverseSmartArt** operation is used to reverse the direction of a [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ReverseSmartArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArt" message="tns:IPptEdit\_ReverseSmartArt\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArtResponse" message="tns:IPptEdit\_ReverseSmartArt\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ReverseSmartArt\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ReverseSmartArt\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ReverseSmartArt\_InputMessage** | The request WSDL message for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ReverseSmartArt\_OutputMessage** | The response WSDL message for the **ReverseSmartArt** WSDL operation. |

###### IPptEdit\_ReverseSmartArt\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArt

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReverseSmartArt** element.

###### IPptEdit\_ReverseSmartArt\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ReverseSmartArtResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ReverseSmartArt** | The input data for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ReverseSmartArtResponse** | The result data for the **ReverseSmartArt** WSDL operation. |

###### ReverseSmartArt

The **ReverseSmartArt** element specifies the input data for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReverseSmartArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c) diagram that is reversed, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:** A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the SmartArt diagram that is reversed as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### ReverseSmartArtResponse

The **ReverseSmartArtResponse** element specifies the result data for the **ReverseSmartArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ReverseSmartArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReverseSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ReverseSmartArtResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### RotateShape

The **RotateShape** operation SHOULD[<95>](#Appendix_A_95" \o "Product behavior note 95) be used to rotate a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="RotateShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShape" message="tns:IPptEdit\_RotateShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShapeResponse" message="tns:IPptEdit\_RotateShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_RotateShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_RotateShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_RotateShape\_InputMessage** | The request WSDL message for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_RotateShape\_OutputMessage** | The response WSDL message for the **RotateShape** WSDL operation. |

###### IPptEdit\_RotateShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RotateShape** element.

###### IPptEdit\_RotateShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **RotateShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **RotateShape** | The input data for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **RotateShapeResponse** | The result data for the **RotateShape** WSDL operation. |

###### RotateShape

The **RotateShape** element specifies the input data for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RotateShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="degrees" type="xs:int"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**shapeId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shape that is being modified as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). The shape MUST NOT be a chart, [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c), 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.

###### RotateShapeResponse

The **RotateShapeResponse** element specifies the result data for the **RotateShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="RotateShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RotateShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**RotateShapeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SaveAndClose

The **SaveAndClose** operation is used to save the contents of a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) and unlock it.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SaveAndClose" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndClose" message="tns:IPptEdit\_SaveAndClose\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndCloseResponse" message="tns:IPptEdit\_SaveAndClose\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SaveAndClose\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SaveAndClose\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SaveAndClose\_InputMessage** | The request WSDL message for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SaveAndClose\_OutputMessage** | The response WSDL message for the **SaveAndClose** WSDL operation. |

###### IPptEdit\_SaveAndClose\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndClose

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveAndClose** element.

###### IPptEdit\_SaveAndClose\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SaveAndCloseResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SaveAndClose** | The input data for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SaveAndCloseResponse** | The result data for the **SaveAndClose** WSDL operation. |

###### SaveAndClose

The **SaveAndClose** element specifies the input data for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveAndClose" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="fReleaseLock" type="xs:boolean"/>
6. <xs:element minOccurs="0" name="fWaitForSave" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**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.

###### SaveAndCloseResponse

The **SaveAndCloseResponse** element specifies the result data for the **SaveAndClose** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SaveAndCloseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SaveAndCloseResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SaveAndCloseResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetAnimation

The **SetAnimation** operation SHOULD[<96>](#Appendix_A_96" \o "Product behavior note 96) be used to apply an animation to a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetAnimation" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimation" message="tns:IPptEdit\_SetAnimation\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimationResponse" message="tns:IPptEdit\_SetAnimation\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetAnimation\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetAnimation\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetAnimation\_InputMessage** | The request WSDL message for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetAnimation\_OutputMessage** | The response WSDL message for the **SetAnimation** WSDL operation. |

###### IPptEdit\_SetAnimation\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimation

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAnimation** element.

###### IPptEdit\_SetAnimation\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetAnimationResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetAnimation** | The input data for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetAnimationResponse** | The result data for the **SetAnimation** WSDL operation. |

###### SetAnimation

The **SetAnimation** element specifies the input data for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAnimation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="fxId" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="sequenceId" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**fxId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the animation. The value MUST be a value from the following table.

| Value | Meaning |
| --- | --- |
| 0x0 | None |
| 0x1 | Appear |
| 0x2 | Fly In |
| 0x3 | Fade |

**direction:** An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of the animation. The value MUST be zero if **fxId** is not 2. The value MUST be a value from the following table if **fxId** is 2.

| Value | Meaning |
| --- | --- |
| 0x0 | None |
| 0x1 | Up |
| 0x2 | Right |
| 0x3 | Down |
| 0x4 | Left |

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

| Value | Meaning |
| --- | --- |
| 0x0 | Default |
| 0x1 | As One Object |
| 0x2 | By Paragraph |
| 0x3 | One by One |

###### SetAnimationResponse

The **SetAnimationResponse** element specifies the result data for the **SetAnimation** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetAnimationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetAnimationResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetAnimationResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeAlignment

The **SetShapeAlignment** operation is used to set the alignment of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeAlignment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignment" message="tns:IPptEdit\_SetShapeAlignment\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignmentResponse" message="tns:IPptEdit\_SetShapeAlignment\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeAlignment\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeAlignment\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeAlignment\_InputMessage** | The request WSDL message for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeAlignment\_OutputMessage** | The response WSDL message for the **SetShapeAlignment** WSDL operation. |

###### IPptEdit\_SetShapeAlignment\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignment

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeAlignment** element.

###### IPptEdit\_SetShapeAlignment\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeAlignmentResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeAlignment** | The input data for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeAlignmentResponse** | The result data for the **SetShapeAlignment** WSDL operation. |

###### SetShapeAlignment

The **SetShapeAlignment** element specifies the input data for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeAlignment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="textAlignment" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

###### SetShapeAlignmentResponse

The **SetShapeAlignmentResponse** element specifies the result data for the **SetShapeAlignment** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeAlignmentResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeAlignmentResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeAlignmentResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeBold

The **SetShapeBold** operation is used to make the text in a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) bold.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeBold" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBold" message="tns:IPptEdit\_SetShapeBold\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBoldResponse" message="tns:IPptEdit\_SetShapeBold\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeBold\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeBold\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeBold\_InputMessage** | The request WSDL message for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeBold\_OutputMessage** | The response WSDL message for the **SetShapeBold** WSDL operation. |

###### IPptEdit\_SetShapeBold\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBold

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeBold** element.

###### IPptEdit\_SetShapeBold\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeBoldResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeBold** | The input data for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeBoldResponse** | The result data for the **SetShapeBold** WSDL operation. |

###### SetShapeBold

The **SetShapeBold** element specifies the input data for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeBold" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="isBold" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**isBold:** A **boolean** that specifies if the text will be made bold.

###### SetShapeBoldResponse

The **SetShapeBoldResponse** element specifies the result data for the **SetShapeBold** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeBoldResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeBoldResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeBoldResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeBullet

The **SetShapeBullet** operation is used to make the text in a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) into a bulleted list.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeBullet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBullet" message="tns:IPptEdit\_SetShapeBullet\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBulletResponse" message="tns:IPptEdit\_SetShapeBullet\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeBullet\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeBullet\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeBullet\_InputMessage** | The request WSDL message for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeBullet\_OutputMessage** | The response WSDL message for the **SetShapeBullet** WSDL operation. |

###### IPptEdit\_SetShapeBullet\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBullet

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeBullet** element.

###### IPptEdit\_SetShapeBullet\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeBulletResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeBullet** | The input data for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeBulletResponse** | The result data for the **SetShapeBullet** WSDL operation. |

###### SetShapeBullet

The **SetShapeBullet** element specifies the input data for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeBullet" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="textBullet" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

| Value | Meaning |
| --- | --- |
| 0x0 | None |
| 0x1 | Bullet |
| 0x2 | Number |

.

###### SetShapeBulletResponse

The **SetShapeBulletResponse** element specifies the result data for the **SetShapeBullet** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeBulletResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeBulletResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeBulletResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeFontColor

The **SetShapeFontColor** operation is used to set the font color of a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeFontColor" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColor" message="tns:IPptEdit\_SetShapeFontColor\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColorResponse" message="tns:IPptEdit\_SetShapeFontColor\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeFontColor\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeFontColor\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeFontColor\_InputMessage** | The request WSDL message for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeFontColor\_OutputMessage** | The response WSDL message for the **SetShapeFontColor** WSDL operation. |

###### IPptEdit\_SetShapeFontColor\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColor

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontColor** element.

###### IPptEdit\_SetShapeFontColor\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontColorResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeFontColor** | The input data for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeFontColorResponse** | The result data for the **SetShapeFontColor** WSDL operation. |

###### SetShapeFontColor

The **SetShapeFontColor** element specifies the input data for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontColor" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

###### SetShapeFontColorResponse

The **SetShapeFontColorResponse** element specifies the result data for the **SetShapeFontColor** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontColorResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontColorResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeFontColorResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeFontName

The **SetShapeFontName** operation is used to set the font name for text for a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeFontName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontName" message="tns:IPptEdit\_SetShapeFontName\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontNameResponse" message="tns:IPptEdit\_SetShapeFontName\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeFontName\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeFontName\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeFontName\_InputMessage** | The request WSDL message for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeFontName\_OutputMessage** | The response WSDL message for the **SetShapeFontName** WSDL operation. |

###### IPptEdit\_SetShapeFontName\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontName

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontName** element.

###### IPptEdit\_SetShapeFontName\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontNameResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeFontName** | The input data for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeFontNameResponse** | The result data for the **SetShapeFontName** WSDL operation. |

###### SetShapeFontName

The **SetShapeFontName** element specifies the input data for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="fontName" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**fontName:**  A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the font name.

###### SetShapeFontNameResponse

The **SetShapeFontNameResponse** element specifies the result data for the **SetShapeFontName** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontNameResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeFontNameResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeFontSize

The **SetShapeFontSize** operation is used to set the font size for text for a shape.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeFontSize" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSize" message="tns:IPptEdit\_SetShapeFontSize\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSizeResponse" message="tns:IPptEdit\_SetShapeFontSize\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeFontSize\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeFontSize\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeFontSize\_InputMessage** | The request WSDL message for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeFontSize\_OutputMessage** | The response WSDL message for the **SetShapeFontSize** WSDL operation. |

###### IPptEdit\_SetShapeFontSize\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSize

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontSize** element.

###### IPptEdit\_SetShapeFontSize\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeFontSizeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeFontSize** | The input data for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeFontSizeResponse** | The result data for the **SetShapeFontSize** WSDL operation. |

###### SetShapeFontSize

The **SetShapeFontSize** element specifies the input data for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontSize" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="fontSize" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**fontSize:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the font size.

###### SetShapeFontSizeResponse

The **SetShapeFontSizeResponse** element specifies the result data for the **SetShapeFontSize** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeFontSizeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontSizeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeFontSizeResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeItalic

The **SetShapeItalic** operation is used to italicize the text for a shape.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeItalic" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalic" message="tns:IPptEdit\_SetShapeItalic\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalicResponse" message="tns:IPptEdit\_SetShapeItalic\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeItalic\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeItalic\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeItalic\_InputMessage** | The request WSDL message for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeItalic\_OutputMessage** | The response WSDL message for the **SetShapeItalic** WSDL operation. |

###### IPptEdit\_SetShapeItalic\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalic

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeItalic** element.

###### IPptEdit\_SetShapeItalic\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeItalicResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeItalic** | The input data for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeItalicResponse** | The result data for the **SetShapeItalic** WSDL operation. |

###### SetShapeItalic

The **SetShapeItalic** element specifies the input data for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeItalic" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="isItalic" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**isItalic:**  A **boolean** that specifies if the text will be italicized.

###### SetShapeItalicResponse

The **SetShapeItalicResponse** element specifies the result data for the **SetShapeItalic** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeItalicResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeItalicResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeItalicResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeTextDirection

The **SetShapeTextDirection** operation is used to set the text direction for a shape.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeTextDirection" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirection" message="tns:IPptEdit\_SetShapeTextDirection\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirectionResponse" message="tns:IPptEdit\_SetShapeTextDirection\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeTextDirection\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeTextDirection\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeTextDirection\_InputMessage** | The request WSDL message for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeTextDirection\_OutputMessage** | The response WSDL message for the **SetShapeTextDirection** WSDL operation. |

###### IPptEdit\_SetShapeTextDirection\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirection

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeTextDirection** element.

###### IPptEdit\_SetShapeTextDirection\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeTextDirectionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeTextDirection** | The input data for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeTextDirectionResponse** | The result data for the **SetShapeTextDirection** WSDL operation. |

###### SetShapeTextDirection

The **SetShapeTextDirection** element specifies the input data for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeTextDirection" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="textDirection" type="xs:unsignedInt"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

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

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

.

###### SetShapeTextDirectionResponse

The **SetShapeTextDirectionResponse** element specifies the result data for the **SetShapeTextDirection** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeTextDirectionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeTextDirectionResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeTextDirectionResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetShapeUnderline

The **SetShapeUnderline** operation is used to underline text in a shape.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetShapeUnderline" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderline" message="tns:IPptEdit\_SetShapeUnderline\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderlineResponse" message="tns:IPptEdit\_SetShapeUnderline\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetShapeUnderline\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetShapeUnderline\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetShapeUnderline\_InputMessage** | The request WSDL message for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetShapeUnderline\_OutputMessage** | The response WSDL message for the **SetShapeUnderline** WSDL operation. |

###### IPptEdit\_SetShapeUnderline\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderline

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeUnderline** element.

###### IPptEdit\_SetShapeUnderline\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetShapeUnderlineResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetShapeUnderline** | The input data for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetShapeUnderlineResponse** | The result data for the **SetShapeUnderline** WSDL operation. |

###### SetShapeUnderline

The **SetShapeUnderline** element specifies the input data for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeUnderline" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="isUnderline" type="xs:boolean"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

**isUnderline:** A **boolean** that specifies if the shape text will be underlined.

###### SetShapeUnderlineResponse

The **SetShapeUnderlineResponse** element specifies the result data for the **SetShapeUnderline** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetShapeUnderlineResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeUnderlineResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetShapeUnderlineResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetTransition

The **SetTransition** operation SHOULD[<97>](#Appendix_A_97" \o "Product behavior note 97) be used to apply a transition to a [**slide**](#gt_dd8a2def-ebde-4fc7-b420-6e837b2059cc) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetTransition" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransition" message="tns:IPptEdit\_SetTransition\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionResponse" message="tns:IPptEdit\_SetTransition\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetTransition\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetTransition\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetTransition\_InputMessage** | The request WSDL message for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetTransition\_OutputMessage** | The response WSDL message for the **SetTransition** WSDL operation. |

###### IPptEdit\_SetTransition\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransition

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetTransition** element.

###### IPptEdit\_SetTransition\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetTransitionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetTransition** | The input data for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetTransitionResponse** | The result data for the **SetTransition** WSDL operation. |

###### SetTransition

The **SetTransition** element specifies the input data for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetTransition" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="type" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="duration" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="isManualAdvance" type="xs:boolean"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the slide, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

| Value | Meaning |
| --- | --- |
| 0x0 | None |
| 0x6 | Fade through black |
| 0x17 | Fade smoothly |
| 0x14 | Push |

**direction:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the direction of transition. If **type** is not 0x14, the value MUST be zero. If **type** is 0x14, the value MUST be a value from the following table.

| Value | Meaning |
| --- | --- |
| 0x0 | From right |
| 0x1 | From bottom |
| 0x2 | From left |
| 0x3 | From top |

**duration:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the duration of the transition in milliseconds.

**isManualAdvance:**  Reserved. MUST be ignored.

###### SetTransitionResponse

The **SetTransitionResponse** element specifies the result data for the **SetTransition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetTransitionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetTransitionResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetTransitionResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetTransitionApplyAll

The **SetTransitionApplyAll** operation SHOULD[<98>](#Appendix_A_98" \o "Product behavior note 98) be used to copy a transition from one [**slide**](#gt_dd8a2def-ebde-4fc7-b420-6e837b2059cc) and apply it to all other slides in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetTransitionApplyAll" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAll" message="tns:IPptEdit\_SetTransitionApplyAll\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAllResponse" message="tns:IPptEdit\_SetTransitionApplyAll\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_SetTransitionApplyAll\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_SetTransitionApplyAll\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetTransitionApplyAll\_InputMessage** | The request WSDL message for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetTransitionApplyAll\_OutputMessage** | The response WSDL message for the **SetTransitionApplyAll** WSDL operation. |

###### IPptEdit\_SetTransitionApplyAll\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAll

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetTransitionApplyAll** element.

###### IPptEdit\_SetTransitionApplyAll\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetTransitionApplyAllResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetTransitionApplyAll** | The input data for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetTransitionApplyAllResponse** | The result data for the **SetTransitionApplyAll** WSDL operation. |

###### SetTransitionApplyAll

The **SetTransitionApplyAll** element specifies the input data for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetTransitionApplyAll" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the transition to be copied as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

###### SetTransitionApplyAllResponse

The **SetTransitionApplyAllResponse** element specifies the result data for the **SetTransitionApplyAll** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetTransitionApplyAllResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetTransitionApplyAllResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetTransitionApplyAllResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetWordArt

Reserved. MUST NOT be called.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SetWordArt" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArt" message="tns:IPptEdit\_SetWordArt\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArtResponse" message="tns:IPptEdit\_SetWordArt\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

Reserved. MUST NOT be called.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_SetWordArt\_InputMessage** | The request WSDL message for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_SetWordArt\_OutputMessage** | The response WSDL message for the **SetWordArt** WSDL operation. |

###### IPptEdit\_SetWordArt\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArt

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetWordArt** element.

###### IPptEdit\_SetWordArt\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SetWordArtResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SetWordArt** | The input data for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SetWordArtResponse** | The result data for the **SetWordArt** WSDL operation. |

###### SetWordArt

The **SetWordArt** element specifies the input data for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetWordArt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="styleId" type="xs:int"/>
8. <xs:element minOccurs="0" name="isClear" type="xs:boolean"/>
9. </xs:sequence>
10. </xs:complexType>
11. </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.

###### SetWordArtResponse

The **SetWordArtResponse** element specifies the result data for the **SetWordArt** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SetWordArtResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetWordArtResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**SetWordArtResult:**  Reserved. MUST be ignored.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ShapeFormatPainting

The **ShapeFormatPainting** operation SHOULD[<99>](#Appendix_A_99" \o "Product behavior note 99) be used to copy formatting from one [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) and apply it to another shape in the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ShapeFormatPainting" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPainting" message="tns:IPptEdit\_ShapeFormatPainting\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPaintingResponse" message="tns:IPptEdit\_ShapeFormatPainting\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ShapeFormatPainting\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ShapeFormatPainting\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ShapeFormatPainting\_InputMessage** | The request WSDL message for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ShapeFormatPainting\_OutputMessage** | The response WSDL message for the **ShapeFormatPainting** WSDL operation. |

###### IPptEdit\_ShapeFormatPainting\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPainting

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ShapeFormatPainting** element.

###### IPptEdit\_ShapeFormatPainting\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ShapeFormatPaintingResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ShapeFormatPainting** | The input data for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ShapeFormatPaintingResponse** | The result data for the **ShapeFormatPainting** WSDL operation. |

###### ShapeFormatPainting

The **ShapeFormatPainting** element specifies the input data for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ShapeFormatPainting" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
7. <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="destinationShapeId" type="xs:unsignedInt"/>
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**sourceSlideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that the formatting is copied from as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**sourceShapeId:**  An **unsignedInt** ([XMLSCHEMA2] section 3.3.22) specifies the identifier of the shape that the formatting is copied from as specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). The shape MUST NOT be a group, [**SmartArt**](#gt_84e8d9f1-b649-42f0-a7ab-baa92e8dc34c), table, chart, or ActiveX shape.

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

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

###### ShapeFormatPaintingResponse

The **ShapeFormatPaintingResponse** element specifies the result data for the **ShapeFormatPainting** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ShapeFormatPaintingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ShapeFormatPaintingResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ShapeFormatPaintingResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ShowHideSlide

The **ShowHideSlide** operation is used to show or hide a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="ShowHideSlide" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlide" message="tns:IPptEdit\_ShowHideSlide\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlideResponse" message="tns:IPptEdit\_ShowHideSlide\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_ShowHideSlide\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_ShowHideSlide\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_ShowHideSlide\_InputMessage** | The request WSDL message for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_ShowHideSlide\_OutputMessage** | The response WSDL message for the **ShowHideSlide** WSDL operation. |

###### IPptEdit\_ShowHideSlide\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlide

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ShowHideSlide** element.

###### IPptEdit\_ShowHideSlide\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **ShowHideSlideResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **ShowHideSlide** | The input data for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **ShowHideSlideResponse** | The result data for the **ShowHideSlide** WSDL operation. |

###### ShowHideSlide

The **ShowHideSlide** element specifies the input data for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ShowHideSlide" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="fHidden" type="xs:boolean"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the target [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the target presentation as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

**fHidden:** A **boolean** ([XMLSCHEMA2] section 3.2.2) that specifies if the operation is to show or hide the presentation slide. If the value is true, the protocol server MUST make the presentation slide hidden. Otherwise, the protocol server MUST make the presentation slide shown. MUST be present.

###### ShowHideSlideResponse

The **ShowHideSlideResponse** element specifies the result data for the **ShowHideSlide** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="ShowHideSlideResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ShowHideSlideResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ShowHideSlideResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### Undo

The **Undo** operation is used to undo the last operation in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) that is not undone.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="Undo" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Undo" message="tns:IPptEdit\_Undo\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UndoResponse" message="tns:IPptEdit\_Undo\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_Undo\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_Undo\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_Undo\_InputMessage** | The request WSDL message for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_Undo\_OutputMessage** | The response WSDL message for the **Undo** WSDL operation. |

###### IPptEdit\_Undo\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Undo

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **Undo** element.

###### IPptEdit\_Undo\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UndoResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **Undo** | The input data for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UndoResponse** | The result data for the **Undo** WSDL operation. |

###### Undo

The **Undo** element specifies the input data for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="Undo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**presentationId:** A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae), as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

###### UndoResponse

The **UndoResponse** element specifies the result data for the **Undo** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UndoResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UndoResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**UndoResult:** A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### UngroupShape

The **UngroupShape** operation SHOULD[<100>](#Appendix_A_100" \o "Product behavior note 100) be used to ungroup a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) in a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="UngroupShape" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShape" message="tns:IPptEdit\_UngroupShape\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShapeResponse" message="tns:IPptEdit\_UngroupShape\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IPptEdit\_UngroupShape\_InputMessage** request message, and the protocol server responds with an **IPptEdit\_UngroupShape\_OutputMessage** response message.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_UngroupShape\_InputMessage** | The request WSDL message for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_UngroupShape\_OutputMessage** | The response WSDL message for the **UngroupShape** WSDL operation. |

###### IPptEdit\_UngroupShape\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShape

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UngroupShape** element.

###### IPptEdit\_UngroupShape\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UngroupShapeResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **UngroupShape** | The input data for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UngroupShapeResponse** | The result data for the **UngroupShape** WSDL operation. |

###### UngroupShape

The **UngroupShape** element specifies the input data for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UngroupShape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**presentationId:**  A **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) containing the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that is being modified, as specified in section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b).

**slideId:**  A **string** that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) containing the shape that is being modified as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13).

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

###### UngroupShapeResponse

The **UngroupShapeResponse** element specifies the result data for the **UngroupShape** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UngroupShapeResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UngroupShapeResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**UngroupShapeResult:**  A **ServiceResult** (section [2.2.4.43](#Section_7479118d288e4cc6a2c4cfc65dd33a91)) that specifies the result of the operation. The **Result** child element MUST be an **EditCommandResponse** (section [2.2.4.23](#Section_209d1536329448088b39e603b9cac8ac)).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### UpdateCanary

Reserved. MUST be ignored.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="UpdateCanary" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanary" message="tns:IPptEdit\_UpdateCanary\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanaryResponse" message="tns:IPptEdit\_UpdateCanary\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IPptEdit\_UpdateCanary\_InputMessage** | The request WSDL message for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IPptEdit\_UpdateCanary\_OutputMessage** | The response WSDL message for the **UpdateCanary** WSDL operation. |

###### IPptEdit\_UpdateCanary\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanary

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpdateCanary** element.

###### IPptEdit\_UpdateCanary\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpdateCanaryResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **UpdateCanary** | The input data for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UpdateCanaryResponse** | The result data for the **UpdateCanary** WSDL operation. |

###### UpdateCanary

The **UpdateCanary** element specifies the input data for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpdateCanary" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**presentationId:** Reserved. MUST be ignored.

###### UpdateCanaryResponse

The **UpdateCanaryResponse** element specifies the result data for the **UpdateCanary** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpdateCanaryResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UpdateCanaryResult" nillable="true" type="tns3:ServiceResult"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**UpdateCanaryResult:** Reserved. MUST be ignored.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

The following example contains a sample interaction between the protocol client and the protocol server.

## Sample Protocol Interaction

In this example, the protocol client sends a request to the protocol server for the identifier of a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae). The following **IPptEdit\_GetPresentationId\_InputMessage** message is sent to the protocol server:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetPresentationId xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <rawDocId>http://protocolserver/Shared Documents/MSPWEDPSExample.pptx</rawDocId></GetPresentationId>
5. </s:Body>
6. </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:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body><GetPresentationIdResponse xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
3. <GetPresentationIdResult>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m</GetPresentationIdResult></GetPresentationIdResponse>
4. </s:Body>
5. </s:Envelope>

The response sent to the protocol client also contains the [**canary**](#gt_959f8d48-a88c-4113-b111-a3fa116ff768) which is sent back as a [**cookie**](#gt_4ce32dd3-0d29-40cb-bfd7-c220d7c7ba3f) 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:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body><GetEditPresInfo xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
3. <presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m</presentationId>
4. <firstSlideIndex>0</firstSlideIndex>
5. <numSlides>10</numSlides>
6. <includedEditSlideIndex>1</includedEditSlideIndex>
7. </GetEditPresInfo>
8. </s:Body>
9. </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:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetEditPresInfoResponse xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <GetEditPresInfoResult xmlns:a="http://schemas.datacontract.org/2004/07/p" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:Error i:nil="true"/>
6. <a:Result i:type="a:EditPresentationInfo">
7. <a:EditSlideInfos>
8. <a:EditSlideInfoFe>
9. <a:Hidden>false</a:Hidden>
10. <a:Id>256</a:Id>
11. <a:Thumb>
12. <a:Alt i:nil="true"/>
13. <a:Clip>
14. <a:Bottom>96</a:Bottom>
15. <a:Left>0</a:Left>
16. <a:Right>128</a:Right>
17. <a:Top>0</a:Top>
18. </a:Clip>
19. <a:Html i:nil="true"/>
20. <a:Id>1</a:Id>
21. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
22. <a:Position>
23. <a:X>0</a:X>
24. <a:Y>0</a:Y>
25. </a:Position>
26. <a:Z>0</a:Z>
27. </a:Thumb>
28. <a:Title>Fancy Title</a:Title>
29. </a:EditSlideInfoFe>
30. </a:EditSlideInfos>
31. <a:FirstSlideIndex>0</a:FirstSlideIndex>
32. <a:HasComments>false</a:HasComments>
33. <a:MainMasters>
34. <a:MainMasterFe>
35. <a:ContentMasters>
36. <a:ContentMasterFe>
37. <a:Id>2147483649</a:Id>
38. <a:Name>Title Slide</a:Name>
39. <a:SlideLayoutType>title</a:SlideLayoutType>
40. </a:ContentMasterFe>
41. <a:ContentMasterFe>
42. <a:Id>2147483650</a:Id>
43. <a:Name>Title and Content</a:Name>
44. <a:SlideLayoutType>obj</a:SlideLayoutType>
45. </a:ContentMasterFe>
46. <a:ContentMasterFe>
47. <a:Id>2147483651</a:Id>
48. <a:Name>Section Header</a:Name>
49. <a:SlideLayoutType>secHead</a:SlideLayoutType>
50. </a:ContentMasterFe>
51. <a:ContentMasterFe>
52. <a:Id>2147483652</a:Id>
53. <a:Name>Two Content</a:Name>
54. <a:SlideLayoutType>twoObj</a:SlideLayoutType>
55. </a:ContentMasterFe>
56. <a:ContentMasterFe>
57. <a:Id>2147483653</a:Id>
58. <a:Name>Comparison</a:Name>
59. <a:SlideLayoutType>twoTxTwoObj</a:SlideLayoutType>
60. </a:ContentMasterFe>
61. <a:ContentMasterFe>
62. <a:Id>2147483654</a:Id>
63. <a:Name>Title Only</a:Name>
64. <a:SlideLayoutType>titleOnly</a:SlideLayoutType>
65. </a:ContentMasterFe>
66. <a:ContentMasterFe>
67. <a:Id>2147483655</a:Id>
68. <a:Name>Blank</a:Name>
69. <a:SlideLayoutType>blank</a:SlideLayoutType>
70. </a:ContentMasterFe>
71. <a:ContentMasterFe>
72. <a:Id>2147483656</a:Id>
73. <a:Name>Content with Caption</a:Name>
74. <a:SlideLayoutType>objTx</a:SlideLayoutType>
75. </a:ContentMasterFe>
76. <a:ContentMasterFe>
77. <a:Id>2147483657</a:Id>
78. <a:Name>Picture with Caption</a:Name>
79. <a:SlideLayoutType>picTx</a:SlideLayoutType>
80. </a:ContentMasterFe>
81. </a:ContentMasters>
82. <a:Id>2147483648</a:Id>
83. <a:InContent>true</a:InContent>
84. <a:Name>Office Theme</a:Name>
85. </a:MainMasterFe>
86. </a:MainMasters>
87. <a:Redo>false</a:Redo>
88. <a:Rtl>false</a:Rtl>
89. <a:Size>
90. <a:X>620</a:X>
91. <a:Y>465</a:Y>
92. </a:Size>
93. <a:Slide i:nil="true"/>
94. <a:SlideOrder>
95. <a:SlideIds xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
96. <b:unsignedInt>256</b:unsignedInt>
97. </a:SlideIds>
98. </a:SlideOrder>
99. <a:Undo>false</a:Undo>
100. </a:Result>
101. </GetEditPresInfoResult></GetEditPresInfoResponse>
102. </s:Body>
103. </s:Envelope>

Next, the protocol client sends a request to the protocol server for information about a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192). The identifier of the first slide is 256 that is specified by the first element of the **SlideOrder** element of the **EditPresentationInfo** element (section [2.2.4.26](#Section_f14fca82669f43029df18d74e7126888)). The following **IPptEdit\_GetEditSlide\_InputMessage** message is sent to the protocol server:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/"><s:Body><GetEditSlide xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/"><presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m</presentationId><slideId>256</slideId></GetEditSlide></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:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <GetEditSlideResponse xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <GetEditSlideResult xmlns:a="http://schemas.datacontract.org/2004/07/p" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:Error i:nil="true"/>
6. <a:Result i:type="a:EditSlide">
7. <a:ContentMasterId>2147483649</a:ContentMasterId>
8. <a:EditShapes>
9. <a:EditShape>
10. <a:Alt i:nil="true"/>
11. <a:EditBounds>
12. <a:Bottom>140</a:Bottom>
13. <a:Left>46</a:Left>
14. <a:Right>573</a:Right>
15. <a:Top>41</a:Top>
16. </a:EditBounds>
17. <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>
18. <a:FontSizeMapping>
19. <a:Size1>12</a:Size1>
20. <a:Size2>15</a:Size2>
21. <a:Size3>19</a:Size3>
22. <a:Size4>21</a:Size4>
23. <a:Size5>28</a:Size5>
24. <a:Size6>44</a:Size6>
25. <a:Size7>56</a:Size7>
26. </a:FontSizeMapping>
27. <a:IsPicture>false</a:IsPicture>
28. <a:IsPlaceholder>true</a:IsPlaceholder>
29. <a:IsPrompt>false</a:IsPrompt>
30. <a:IsSmartArt>false</a:IsSmartArt>
31. <a:PlaceholderType>2</a:PlaceholderType>
32. <a:ShapeId>2</a:ShapeId>
33. <a:ShapeViewElemId>2</a:ShapeViewElemId>
34. <a:SmartArtInfo i:nil="true"/>
35. <a:TextViewElemId>3</a:TextViewElemId>
36. </a:EditShape>
37. <a:EditShape>
38. <a:Alt i:nil="true"/>
39. <a:EditBounds>
40. <a:Bottom>340</a:Bottom>
41. <a:Left>25</a:Left>
42. <a:Right>459</a:Right>
43. <a:Top>222</a:Top>
44. </a:EditBounds>
45. <a:EditHtml>&lt;div class=defaultPHStyles style='font-size:24.0px;font-family:Calibri;color:#1F497D;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=5 face=Calibri color="#1F497D"&gt;Boring subtitle&lt;/font&gt;&lt;/p&gt;</a:EditHtml>
46. <a:FontSizeMapping>
47. <a:Size1>12</a:Size1>
48. <a:Size2>20</a:Size2>
49. <a:Size3>24</a:Size3>
50. <a:Size4>28</a:Size4>
51. <a:Size5>32</a:Size5>
52. <a:Size6>37</a:Size6>
53. <a:Size7>56</a:Size7>
54. </a:FontSizeMapping>
55. <a:IsPicture>false</a:IsPicture>
56. <a:IsPlaceholder>true</a:IsPlaceholder>
57. <a:IsPrompt>false</a:IsPrompt>
58. <a:IsSmartArt>false</a:IsSmartArt>
59. <a:PlaceholderType>3</a:PlaceholderType>
60. <a:ShapeId>3</a:ShapeId>
61. <a:ShapeViewElemId>0</a:ShapeViewElemId>
62. <a:SmartArtInfo i:nil="true"/>
63. <a:TextViewElemId>4</a:TextViewElemId>
64. </a:EditShape>
65. </a:EditShapes>
66. <a:Hidden>false</a:Hidden>
67. <a:IsTitleContentMaster>true</a:IsTitleContentMaster>
68. <a:MainMasterId>2147483648</a:MainMasterId>
69. <a:Notes>
70. <a:Html>
71. <a:Text>&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=left&gt;&lt;font face=Calibri&gt;&lt;img width=1 height=10 style='visibility:hidden'&gt;&lt;/font&gt;&lt;/p&gt;</a:Text>
72. </a:Html>
73. <a:IsPrompt>true</a:IsPrompt>
74. </a:Notes>
75. <a:SlideId>256</a:SlideId>
76. <a:Theme>
77. <a:Accent1>
78. <a:b>189</a:b>
79. <a:g>129</a:g>
80. <a:r>79</a:r>
81. </a:Accent1>
82. <a:Accent2>
83. <a:b>77</a:b>
84. <a:g>80</a:g>
85. <a:r>192</a:r>
86. </a:Accent2>
87. <a:Accent3>
88. <a:b>89</a:b>
89. <a:g>187</a:g>
90. <a:r>155</a:r>
91. </a:Accent3>
92. <a:Accent4>
93. <a:b>162</a:b>
94. <a:g>100</a:g>
95. <a:r>128</a:r>
96. </a:Accent4>
97. <a:Accent5>
98. <a:b>198</a:b>
99. <a:g>172</a:g>
100. <a:r>75</a:r>
101. </a:Accent5>
102. <a:Accent6>
103. <a:b>70</a:b>
104. <a:g>150</a:g>
105. <a:r>247</a:r>
106. </a:Accent6>
107. <a:Dark1>
108. <a:b>0</a:b>
109. <a:g>0</a:g>
110. <a:r>0</a:r>
111. </a:Dark1>
112. <a:Dark2>
113. <a:b>125</a:b>
114. <a:g>73</a:g>
115. <a:r>31</a:r>
116. </a:Dark2>
117. <a:Light1>
118. <a:b>255</a:b>
119. <a:g>255</a:g>
120. <a:r>255</a:r>
121. </a:Light1>
122. <a:Light2>
123. <a:b>225</a:b>
124. <a:g>236</a:g>
125. <a:r>238</a:r>
126. </a:Light2>
127. </a:Theme>
128. <a:ThumbnailViewElement>
129. <a:Alt i:nil="true"/>
130. <a:Clip>
131. <a:Bottom>96</a:Bottom>
132. <a:Left>0</a:Left>
133. <a:Right>128</a:Right>
134. <a:Top>0</a:Top>
135. </a:Clip>
136. <a:Html i:nil="true"/>
137. <a:Id>1</a:Id>
138. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=14tvmylk%2Ed4e%2Epng</a:ImgId>
139. <a:Position>
140. <a:X>0</a:X>
141. <a:Y>0</a:Y>
142. </a:Position>
143. <a:Z>0</a:Z>
144. </a:ThumbnailViewElement>
145. <a:ViewElems>
146. <a:ViewElement>
147. <a:Alt/>
148. <a:Clip>
149. <a:Bottom>205</a:Bottom>
150. <a:Left>0</a:Left>
151. <a:Right>407</a:Right>
152. <a:Top>0</a:Top>
153. </a:Clip>
154. <a:Html i:nil="true"/>
155. <a:Id>2</a:Id>
156. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
157. <a:Position>
158. <a:X>149</a:X>
159. <a:Y>8</a:Y>
160. </a:Position>
161. <a:Z>1</a:Z>
162. </a:ViewElement>
163. <a:ViewElement>
164. <a:Alt i:nil="true"/>
165. <a:Clip>
166. <a:Bottom>74</a:Bottom>
167. <a:Left>407</a:Left>
168. <a:Right>547</a:Right>
169. <a:Top>0</a:Top>
170. </a:Clip>
171. <a:Html i:nil="true"/>
172. <a:Id>3</a:Id>
173. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
174. <a:Position>
175. <a:X>245</a:X>
176. <a:Y>66</a:Y>
177. </a:Position>
178. <a:Z>2</a:Z>
179. </a:ViewElement>
180. <a:ViewElement>
181. <a:Alt i:nil="true"/>
182. <a:Clip>
183. <a:Bottom>24</a:Bottom>
184. <a:Left>547</a:Left>
185. <a:Right>708</a:Right>
186. <a:Top>0</a:Top>
187. </a:Clip>
188. <a:Html i:nil="true"/>
189. <a:Id>4</a:Id>
190. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=yvkqez1r%2Esms%2Epng</a:ImgId>
191. <a:Position>
192. <a:X>163</a:X>
193. <a:Y>232</a:Y>
194. </a:Position>
195. <a:Z>5</a:Z>
196. </a:ViewElement>
197. <a:ViewElement>
198. <a:Alt i:nil="true"/>
199. <a:Clip i:nil="true"/>
200. <a:Html>&lt;div style="position:absolute;top:0px;left:0px;width:620px;height:465px;background-color:#FFFFFF"/&gt;</a:Html>
201. <a:Id>0</a:Id>
202. <a:ImgId i:nil="true"/>
203. <a:Position>
204. <a:X>0</a:X>
205. <a:Y>0</a:Y>
206. </a:Position>
207. <a:Z>0</a:Z>
208. </a:ViewElement>
209. </a:ViewElems>
210. </a:Result>
211. </GetEditSlideResult>
212. </GetEditSlideResponse>
213. </s:Body>
214. </s:Envelope>

Next, the protocol client sends a request to the protocol server to modify the text of a shape on the presentation slide that was referenced in the previous step. The identifier of the shape, 2, is specified by the **ShapeId** element of the first element in the **EditShapes** element of the **EditSlide** element (section [2.2.4.29](#Section_536b029b31804ae2906e06a1d726b04f)). The following **IPptEdit\_ReplaceText\_InputMessage** message is sent to the protocol server:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <ReplaceText xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m</presentationId>
5. <slideId>256</slideId>
6. <shapeId>2</shapeId>
7. <newText>&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6 face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-transform:uppercase'&gt;&lt;b&gt;Fancy Title with 3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</newText>
8. </ReplaceText>
9. </s:Body>
10. </s:Envelope>

The protocol server responds with the result of the operation. The following **IPptEdit\_ReplaceText\_OutputMessage** message is sent to the protocol client:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <ReplaceTextResponse xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <ReplaceTextResult xmlns:a="http://schemas.datacontract.org/2004/07/p" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:Error i:nil="true"/>
6. <a:Result i:type="a:EditCommandResponse">
7. <a:PresChanges>
8. <a:AddedSlideInfos/>
9. <a:AddedSlides/>
10. <a:MainMasterIds i:nil="true"/>
11. <a:ModifiedSlides>
12. <a:EditSlideChanges>
13. <a:DelElems xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
14. <a:Elems>
15. <a:ViewElement>
16. <a:Alt/>
17. <a:Clip>
18. <a:Bottom>205</a:Bottom>
19. <a:Left>0</a:Left>
20. <a:Right>407</a:Right>
21. <a:Top>0</a:Top>
22. </a:Clip>
23. <a:Html i:nil="true"/>
24. <a:Id>2</a:Id>
25. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
26. <a:Position>
27. <a:X>149</a:X>
28. <a:Y>8</a:Y>
29. </a:Position>
30. <a:Z>1</a:Z>
31. </a:ViewElement>
32. <a:ViewElement>
33. <a:Alt i:nil="true"/>
34. <a:Clip>
35. <a:Bottom>102</a:Bottom>
36. <a:Left>407</a:Left>
37. <a:Right>659</a:Right>
38. <a:Top>0</a:Top>
39. </a:Clip>
40. <a:Html i:nil="true"/>
41. <a:Id>3</a:Id>
42. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
43. <a:Position>
44. <a:X>199</a:X>
45. <a:Y>55</a:Y>
46. </a:Position>
47. <a:Z>2</a:Z>
48. </a:ViewElement>
49. </a:Elems>
50. <a:Hidden>false</a:Hidden>
51. <a:Id>256</a:Id>
52. <a:ModifiedShapes>
53. <a:EditShape>
54. <a:Alt i:nil="true"/>
55. <a:EditBounds>
56. <a:Bottom>140</a:Bottom>
57. <a:Left>46</a:Left>
58. <a:Right>573</a:Right>
59. <a:Top>41</a:Top>
60. </a:EditBounds>
61. <a:EditHtml>&lt;div class=defaultPHStyles style='font-size:32.0px;font-family:Calibri;color:#7293C9;text-align:center'&gt; &lt;/div&gt;&lt;p class=nonListPara style='direction:ltr' lang=en-US style='language:en-US' align=center&gt;&lt;font size=6 face=Calibri color="#7293C9"&gt;&lt;span style='font-variant:normal;text-transform:uppercase'&gt;&lt;b&gt;Fancy Title with 3d.&lt;/b&gt;&lt;/span&gt;&lt;/font&gt;&lt;/p&gt;</a:EditHtml>
62. <a:FontSizeMapping>
63. <a:Size1>12</a:Size1>
64. <a:Size2>15</a:Size2>
65. <a:Size3>19</a:Size3>
66. <a:Size4>21</a:Size4>
67. <a:Size5>28</a:Size5>
68. <a:Size6>44</a:Size6>
69. <a:Size7>56</a:Size7>
70. </a:FontSizeMapping>
71. <a:IsPicture>false</a:IsPicture>
72. <a:IsPlaceholder>true</a:IsPlaceholder>
73. <a:IsPrompt>false</a:IsPrompt>
74. <a:IsSmartArt>false</a:IsSmartArt>
75. <a:PlaceholderType>2</a:PlaceholderType>
76. <a:ShapeId>2</a:ShapeId>
77. <a:ShapeViewElemId>2</a:ShapeViewElemId>
78. <a:SmartArtInfo i:nil="true"/>
79. <a:TextViewElemId>3</a:TextViewElemId>
80. </a:EditShape>
81. </a:ModifiedShapes>
82. <a:Notes i:nil="true"/>
83. <a:Refresh>false</a:Refresh>
84. <a:Thumb>
85. <a:Alt i:nil="true"/>
86. <a:Clip>
87. <a:Bottom>96</a:Bottom>
88. <a:Left>659</a:Left>
89. <a:Right>787</a:Right>
90. <a:Top>0</a:Top>
91. </a:Clip>
92. <a:Html i:nil="true"/>
93. <a:Id>5</a:Id>
94. <a:ImgId>./editImageHandler.ashx?Pid=d%3DF39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fm568ced57b5cc4aeda74fff96066a8267m&amp;Rid=iv0q3epq%2Edro%2Epng</a:ImgId>
95. <a:Position>
96. <a:X>0</a:X>
97. <a:Y>0</a:Y>
98. </a:Position>
99. <a:Z>0</a:Z>
100. </a:Thumb>
101. <a:Title>Fancy Title with 3d.</a:Title>
102. </a:EditSlideChanges>
103. </a:ModifiedSlides>
104. <a:Redo>false</a:Redo>
105. <a:SlideOrder i:nil="true"/>
106. <a:Undo>true</a:Undo>
107. </a:PresChanges>
108. </a:Result>
109. </ReplaceTextResult>
110. </ReplaceTextResponse>
111. </s:Body>
112. </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:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SaveAndClose xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <presentationId>d=F39bc64b0ef8e43c493bc0191f7fb5371m371f1619a41e40dd8a9a007e0723241fmcf8e360c9a82447c9a2ce13a5987d49cm</presentationId>
5. <fReleaseLock>true</fReleaseLock>
6. <fWaitForSave>true</fWaitForSave>
7. </SaveAndClose>
8. </s:Body>
9. </s:Envelope>

The protocol server responds with the result of the operation. The following **IPptEdit\_SaveAndClose\_OutputMessage** message is sent to the protocol client:

1. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
2. <s:Body>
3. <SaveAndCloseResponse xmlns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/">
4. <SaveAndCloseResult xmlns:a="http://schemas.datacontract.org/2004/07/p" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
5. <a:Error i:nil="true"/>
6. <a:Result i:type="a:EditCommandResponse">
7. <a:PresChanges i:nil="true"/>
8. </a:Result>
9. </SaveAndCloseResult>
10. </SaveAndCloseResponse>
11. </s:Body>
12. </s:Envelope>

# Security

## Security Considerations for Implementers

The **Html** child element of **ViewElement** (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)), the **Html** child element of **Notes** (section [2.2.4.37](#Section_a239527346a94a56aad6cf2a14e39e84)), and the **EditHtml** child element of EditShape (section [2.2.4.28](#Section_7dcc2bd9a0404b3db0ecec119f0bc4d1)) contain [[HTML]](https://go.microsoft.com/fwlink/?LinkId=89880) fragments. HTML fragments are susceptible to [**cross-site scripting**](#gt_1197b43e-d3a2-494f-a28f-a5682cd1ceac) attacks. Implementers are advised to sanitize these HTML fragments when generating or processing these elements.

Some operations which specify a change to a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) such as **DeleteSlide** (section [3.1.4.17](#Section_b241bb4b7b7b483ebb7a054366390e8e)) are susceptible to [**cross-site request forgery**](#gt_63c9f3e5-2bfc-4c1d-9eaf-3e1c65cf1766) attacks. Implementers are advised to use a [**canary**](#gt_959f8d48-a88c-4113-b111-a3fa116ff768)[<101>](#Appendix_A_101" \o "Product behavior note 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]](https://go.microsoft.com/fwlink/?LinkId=90385) apply.

## Index of Security Parameters

None.

# Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

1. <?xml version="1.0" encoding="UTF-8"?>
2. <wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
3. <wsdl:types>
4. <xs:schema xmlns:tns5="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports" targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/Imports">
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared"/>
6. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"/>
7. <xs:import namespace="http://schemas.datacontract.org/2004/07/p"/>
8. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
9. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
10. <xs:import namespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/"/>
11. </xs:schema>
12. </wsdl:types>
13. <wsdl:portType name="IPptEdit">
14. <wsdl:operation name="LogULS">
15. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULS" message="tns:IPptEdit\_LogULS\_InputMessage"/>
16. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULSResponse" message="tns:IPptEdit\_LogULS\_OutputMessage"/>
17. </wsdl:operation>
18. <wsdl:operation name="GetPresentationId">
19. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationId" message="tns:IPptEdit\_GetPresentationId\_InputMessage"/>
20. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationIdResponse" message="tns:IPptEdit\_GetPresentationId\_OutputMessage"/>
21. </wsdl:operation>
22. <wsdl:operation name="GetCoauthUpdates">
23. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdates" message="tns:IPptEdit\_GetCoauthUpdates\_InputMessage"/>
24. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdatesResponse" message="tns:IPptEdit\_GetCoauthUpdates\_OutputMessage"/>
25. </wsdl:operation>
26. <wsdl:operation name="GetEditPresInfo">
27. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfo" message="tns:IPptEdit\_GetEditPresInfo\_InputMessage"/>
28. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoResponse" message="tns:IPptEdit\_GetEditPresInfo\_OutputMessage"/>
29. </wsdl:operation>
30. <wsdl:operation name="GetEditPresInfoGetEditSlideById">
31. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById" message="tns:IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage"/>
32. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideByIdResponse" message="tns:IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage"/>
33. </wsdl:operation>
34. <wsdl:operation name="GetEditPresResources">
35. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResources" message="tns:IPptEdit\_GetEditPresResources\_InputMessage"/>
36. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResourcesResponse" message="tns:IPptEdit\_GetEditPresResources\_OutputMessage"/>
37. </wsdl:operation>
38. <wsdl:operation name="GetEditSlide">
39. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlide" message="tns:IPptEdit\_GetEditSlide\_InputMessage"/>
40. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlideResponse" message="tns:IPptEdit\_GetEditSlide\_OutputMessage"/>
41. </wsdl:operation>
42. <wsdl:operation name="MoveSlide">
43. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlide" message="tns:IPptEdit\_MoveSlide\_InputMessage"/>
44. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlideResponse" message="tns:IPptEdit\_MoveSlide\_OutputMessage"/>
45. </wsdl:operation>
46. <wsdl:operation name="InsertSlide">
47. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlide" message="tns:IPptEdit\_InsertSlide\_InputMessage"/>
48. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlideResponse" message="tns:IPptEdit\_InsertSlide\_OutputMessage"/>
49. </wsdl:operation>
50. <wsdl:operation name="ReplaceText">
51. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceText" message="tns:IPptEdit\_ReplaceText\_InputMessage"/>
52. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceTextResponse" message="tns:IPptEdit\_ReplaceText\_OutputMessage"/>
53. </wsdl:operation>
54. <wsdl:operation name="SetAnimation">
55. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimation" message="tns:IPptEdit\_SetAnimation\_InputMessage"/>
56. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimationResponse" message="tns:IPptEdit\_SetAnimation\_OutputMessage"/>
57. </wsdl:operation>
58. <wsdl:operation name="SetTransition">
59. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransition" message="tns:IPptEdit\_SetTransition\_InputMessage"/>
60. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionResponse" message="tns:IPptEdit\_SetTransition\_OutputMessage"/>
61. </wsdl:operation>
62. <wsdl:operation name="SetTransitionApplyAll">
63. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAll" message="tns:IPptEdit\_SetTransitionApplyAll\_InputMessage"/>
64. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAllResponse" message="tns:IPptEdit\_SetTransitionApplyAll\_OutputMessage"/>
65. </wsdl:operation>
66. <wsdl:operation name="ReorderAnimation">
67. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimation" message="tns:IPptEdit\_ReorderAnimation\_InputMessage"/>
68. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimationResponse" message="tns:IPptEdit\_ReorderAnimation\_OutputMessage"/>
69. </wsdl:operation>
70. <wsdl:operation name="ClearPlaceholder">
71. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholder" message="tns:IPptEdit\_ClearPlaceholder\_InputMessage"/>
72. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholderResponse" message="tns:IPptEdit\_ClearPlaceholder\_OutputMessage"/>
73. </wsdl:operation>
74. <wsdl:operation name="DeleteSlide">
75. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlide" message="tns:IPptEdit\_DeleteSlide\_InputMessage"/>
76. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlideResponse" message="tns:IPptEdit\_DeleteSlide\_OutputMessage"/>
77. </wsdl:operation>
78. <wsdl:operation name="DuplicateSlide">
79. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlide" message="tns:IPptEdit\_DuplicateSlide\_InputMessage"/>
80. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlideResponse" message="tns:IPptEdit\_DuplicateSlide\_OutputMessage"/>
81. </wsdl:operation>
82. <wsdl:operation name="ShowHideSlide">
83. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlide" message="tns:IPptEdit\_ShowHideSlide\_InputMessage"/>
84. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlideResponse" message="tns:IPptEdit\_ShowHideSlide\_OutputMessage"/>
85. </wsdl:operation>
86. <wsdl:operation name="ReplaceNotes">
87. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotes" message="tns:IPptEdit\_ReplaceNotes\_InputMessage"/>
88. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotesResponse" message="tns:IPptEdit\_ReplaceNotes\_OutputMessage"/>
89. </wsdl:operation>
90. <wsdl:operation name="Undo">
91. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Undo" message="tns:IPptEdit\_Undo\_InputMessage"/>
92. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UndoResponse" message="tns:IPptEdit\_Undo\_OutputMessage"/>
93. </wsdl:operation>
94. <wsdl:operation name="Redo">
95. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Redo" message="tns:IPptEdit\_Redo\_InputMessage"/>
96. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RedoResponse" message="tns:IPptEdit\_Redo\_OutputMessage"/>
97. </wsdl:operation>
98. <wsdl:operation name="ChangePictureStyle">
99. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyle" message="tns:IPptEdit\_ChangePictureStyle\_InputMessage"/>
100. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyleResponse" message="tns:IPptEdit\_ChangePictureStyle\_OutputMessage"/>
101. </wsdl:operation>
102. <wsdl:operation name="ResetPicture">
103. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPicture" message="tns:IPptEdit\_ResetPicture\_InputMessage"/>
104. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPictureResponse" message="tns:IPptEdit\_ResetPicture\_OutputMessage"/>
105. </wsdl:operation>
106. <wsdl:operation name="MoveShape">
107. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShape" message="tns:IPptEdit\_MoveShape\_InputMessage"/>
108. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShapeResponse" message="tns:IPptEdit\_MoveShape\_OutputMessage"/>
109. </wsdl:operation>
110. <wsdl:operation name="ResizeShape">
111. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShape" message="tns:IPptEdit\_ResizeShape\_InputMessage"/>
112. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShapeResponse" message="tns:IPptEdit\_ResizeShape\_OutputMessage"/>
113. </wsdl:operation>
114. <wsdl:operation name="RotateShape">
115. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShape" message="tns:IPptEdit\_RotateShape\_InputMessage"/>
116. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShapeResponse" message="tns:IPptEdit\_RotateShape\_OutputMessage"/>
117. </wsdl:operation>
118. <wsdl:operation name="FlipShape">
119. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShape" message="tns:IPptEdit\_FlipShape\_InputMessage"/>
120. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShapeResponse" message="tns:IPptEdit\_FlipShape\_OutputMessage"/>
121. </wsdl:operation>
122. <wsdl:operation name="InsertShape">
123. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShape" message="tns:IPptEdit\_InsertShape\_InputMessage"/>
124. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShapeResponse" message="tns:IPptEdit\_InsertShape\_OutputMessage"/>
125. </wsdl:operation>
126. <wsdl:operation name="DuplicateShape">
127. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShape" message="tns:IPptEdit\_DuplicateShape\_InputMessage"/>
128. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShapeResponse" message="tns:IPptEdit\_DuplicateShape\_OutputMessage"/>
129. </wsdl:operation>
130. <wsdl:operation name="ArrangeShape">
131. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShape" message="tns:IPptEdit\_ArrangeShape\_InputMessage"/>
132. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShapeResponse" message="tns:IPptEdit\_ArrangeShape\_OutputMessage"/>
133. </wsdl:operation>
134. <wsdl:operation name="UngroupShape">
135. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShape" message="tns:IPptEdit\_UngroupShape\_InputMessage"/>
136. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShapeResponse" message="tns:IPptEdit\_UngroupShape\_OutputMessage"/>
137. </wsdl:operation>
138. <wsdl:operation name="ApplyShapeStyle">
139. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyle" message="tns:IPptEdit\_ApplyShapeStyle\_InputMessage"/>
140. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyleResponse" message="tns:IPptEdit\_ApplyShapeStyle\_OutputMessage"/>
141. </wsdl:operation>
142. <wsdl:operation name="ApplyShapeFill">
143. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFill" message="tns:IPptEdit\_ApplyShapeFill\_InputMessage"/>
144. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFillResponse" message="tns:IPptEdit\_ApplyShapeFill\_OutputMessage"/>
145. </wsdl:operation>
146. <wsdl:operation name="RemoveShapeFill">
147. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFill" message="tns:IPptEdit\_RemoveShapeFill\_InputMessage"/>
148. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFillResponse" message="tns:IPptEdit\_RemoveShapeFill\_OutputMessage"/>
149. </wsdl:operation>
150. <wsdl:operation name="ApplyShapeOutlineColor">
151. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColor" message="tns:IPptEdit\_ApplyShapeOutlineColor\_InputMessage"/>
152. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColorResponse" message="tns:IPptEdit\_ApplyShapeOutlineColor\_OutputMessage"/>
153. </wsdl:operation>
154. <wsdl:operation name="ApplyShapeOutlineWidth">
155. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidth" message="tns:IPptEdit\_ApplyShapeOutlineWidth\_InputMessage"/>
156. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidthResponse" message="tns:IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage"/>
157. </wsdl:operation>
158. <wsdl:operation name="ApplyShapeOutlineDashStyle">
159. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle" message="tns:IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage"/>
160. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyleResponse" message="tns:IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage"/>
161. </wsdl:operation>
162. <wsdl:operation name="ApplyShapeOutlineEndStyle">
163. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle" message="tns:IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage"/>
164. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyleResponse" message="tns:IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage"/>
165. </wsdl:operation>
166. <wsdl:operation name="RemoveShapeOutline">
167. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutline" message="tns:IPptEdit\_RemoveShapeOutline\_InputMessage"/>
168. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutlineResponse" message="tns:IPptEdit\_RemoveShapeOutline\_OutputMessage"/>
169. </wsdl:operation>
170. <wsdl:operation name="SaveAndClose">
171. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndClose" message="tns:IPptEdit\_SaveAndClose\_InputMessage"/>
172. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndCloseResponse" message="tns:IPptEdit\_SaveAndClose\_OutputMessage"/>
173. </wsdl:operation>
174. <wsdl:operation name="UpdateCanary">
175. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanary" message="tns:IPptEdit\_UpdateCanary\_InputMessage"/>
176. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanaryResponse" message="tns:IPptEdit\_UpdateCanary\_OutputMessage"/>
177. </wsdl:operation>
178. <wsdl:operation name="Print">
179. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Print" message="tns:IPptEdit\_Print\_InputMessage"/>
180. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PrintResponse" message="tns:IPptEdit\_Print\_OutputMessage"/>
181. </wsdl:operation>
182. <wsdl:operation name="ChangeSmartArtLayout">
183. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtLayout" message="tns:IPptEdit\_ChangeSmartArtLayout\_InputMessage"/>
184. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtLayoutResponse" message="tns:IPptEdit\_ChangeSmartArtLayout\_OutputMessage"/>
185. </wsdl:operation>
186. <wsdl:operation name="ChangeSmartArtColor">
187. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColor" message="tns:IPptEdit\_ChangeSmartArtColor\_InputMessage"/>
188. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColorResponse" message="tns:IPptEdit\_ChangeSmartArtColor\_OutputMessage"/>
189. </wsdl:operation>
190. <wsdl:operation name="ChangeSmartArtStyle">
191. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyle" message="tns:IPptEdit\_ChangeSmartArtStyle\_InputMessage"/>
192. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyleResponse" message="tns:IPptEdit\_ChangeSmartArtStyle\_OutputMessage"/>
193. </wsdl:operation>
194. <wsdl:operation name="InsertSmartArt">
195. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArt" message="tns:IPptEdit\_InsertSmartArt\_InputMessage"/>
196. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArtResponse" message="tns:IPptEdit\_InsertSmartArt\_OutputMessage"/>
197. </wsdl:operation>
198. <wsdl:operation name="ResetSmartArt">
199. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArt" message="tns:IPptEdit\_ResetSmartArt\_InputMessage"/>
200. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArtResponse" message="tns:IPptEdit\_ResetSmartArt\_OutputMessage"/>
201. </wsdl:operation>
202. <wsdl:operation name="ReverseSmartArt">
203. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArt" message="tns:IPptEdit\_ReverseSmartArt\_InputMessage"/>
204. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArtResponse" message="tns:IPptEdit\_ReverseSmartArt\_OutputMessage"/>
205. </wsdl:operation>
206. <wsdl:operation name="ApplyTheme">
207. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyTheme" message="tns:IPptEdit\_ApplyTheme\_InputMessage"/>
208. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyThemeResponse" message="tns:IPptEdit\_ApplyTheme\_OutputMessage"/>
209. </wsdl:operation>
210. <wsdl:operation name="SetWordArt">
211. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArt" message="tns:IPptEdit\_SetWordArt\_InputMessage"/>
212. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArtResponse" message="tns:IPptEdit\_SetWordArt\_OutputMessage"/>
213. </wsdl:operation>
214. <wsdl:operation name="InsertClipart">
215. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipart" message="tns:IPptEdit\_InsertClipart\_InputMessage"/>
216. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipartResponse" message="tns:IPptEdit\_InsertClipart\_OutputMessage"/>
217. </wsdl:operation>
218. <wsdl:operation name="PastePicture">
219. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePicture" message="tns:IPptEdit\_PastePicture\_InputMessage"/>
220. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePictureResponse" message="tns:IPptEdit\_PastePicture\_OutputMessage"/>
221. </wsdl:operation>
222. <wsdl:operation name="ShapeFormatPainting">
223. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPainting" message="tns:IPptEdit\_ShapeFormatPainting\_InputMessage"/>
224. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPaintingResponse" message="tns:IPptEdit\_ShapeFormatPainting\_OutputMessage"/>
225. </wsdl:operation>
226. <wsdl:operation name="AddComment">
227. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddComment" message="tns:IPptEdit\_AddComment\_InputMessage"/>
228. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddCommentResponse" message="tns:IPptEdit\_AddComment\_OutputMessage"/>
229. </wsdl:operation>
230. <wsdl:operation name="DeleteComment">
231. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteComment" message="tns:IPptEdit\_DeleteComment\_InputMessage"/>
232. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteCommentResponse" message="tns:IPptEdit\_DeleteComment\_OutputMessage"/>
233. </wsdl:operation>
234. <wsdl:operation name="EditComment">
235. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditComment" message="tns:IPptEdit\_EditComment\_InputMessage"/>
236. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditCommentResponse" message="tns:IPptEdit\_EditComment\_OutputMessage"/>
237. </wsdl:operation>
238. <wsdl:operation name="MoveComment">
239. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveComment" message="tns:IPptEdit\_MoveComment\_InputMessage"/>
240. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveCommentResponse" message="tns:IPptEdit\_MoveComment\_OutputMessage"/>
241. </wsdl:operation>
242. <wsdl:operation name="SetShapeBold">
243. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBold" message="tns:IPptEdit\_SetShapeBold\_InputMessage"/>
244. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBoldResponse" message="tns:IPptEdit\_SetShapeBold\_OutputMessage"/>
245. </wsdl:operation>
246. <wsdl:operation name="SetShapeItalic">
247. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalic" message="tns:IPptEdit\_SetShapeItalic\_InputMessage"/>
248. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalicResponse" message="tns:IPptEdit\_SetShapeItalic\_OutputMessage"/>
249. </wsdl:operation>
250. <wsdl:operation name="SetShapeUnderline">
251. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderline" message="tns:IPptEdit\_SetShapeUnderline\_InputMessage"/>
252. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderlineResponse" message="tns:IPptEdit\_SetShapeUnderline\_OutputMessage"/>
253. </wsdl:operation>
254. <wsdl:operation name="SetShapeAlignment">
255. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignment" message="tns:IPptEdit\_SetShapeAlignment\_InputMessage"/>
256. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignmentResponse" message="tns:IPptEdit\_SetShapeAlignment\_OutputMessage"/>
257. </wsdl:operation>
258. <wsdl:operation name="SetShapeFontName">
259. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontName" message="tns:IPptEdit\_SetShapeFontName\_InputMessage"/>
260. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontNameResponse" message="tns:IPptEdit\_SetShapeFontName\_OutputMessage"/>
261. </wsdl:operation>
262. <wsdl:operation name="SetShapeFontSize">
263. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSize" message="tns:IPptEdit\_SetShapeFontSize\_InputMessage"/>
264. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSizeResponse" message="tns:IPptEdit\_SetShapeFontSize\_OutputMessage"/>
265. </wsdl:operation>
266. <wsdl:operation name="SetShapeFontColor">
267. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColor" message="tns:IPptEdit\_SetShapeFontColor\_InputMessage"/>
268. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColorResponse" message="tns:IPptEdit\_SetShapeFontColor\_OutputMessage"/>
269. </wsdl:operation>
270. <wsdl:operation name="SetShapeBullet">
271. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBullet" message="tns:IPptEdit\_SetShapeBullet\_InputMessage"/>
272. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBulletResponse" message="tns:IPptEdit\_SetShapeBullet\_OutputMessage"/>
273. </wsdl:operation>
274. <wsdl:operation name="SetShapeTextDirection">
275. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirection" message="tns:IPptEdit\_SetShapeTextDirection\_InputMessage"/>
276. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirectionResponse" message="tns:IPptEdit\_SetShapeTextDirection\_OutputMessage"/>
277. </wsdl:operation>
278. <wsdl:operation name="ChangeLayout">
279. <wsdl:input wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayout" message="tns:IPptEdit\_ChangeLayout\_InputMessage"/>
280. <wsdl:output wsaw:Action="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayoutResponse" message="tns:IPptEdit\_ChangeLayout\_OutputMessage"/>
281. </wsdl:operation>
282. </wsdl:portType>
283. <wsdl:binding name="DefaultBinding\_IPptEdit" type="tns:IPptEdit">
284. <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
285. <wsdl:operation name="LogULS">
286. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/LogULS" style="document"/>
287. <wsdl:input>
288. <soap:body use="literal"/>
289. </wsdl:input>
290. <wsdl:output>
291. <soap:body use="literal"/>
292. </wsdl:output>
293. </wsdl:operation>
294. <wsdl:operation name="GetPresentationId">
295. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetPresentationId" style="document"/>
296. <wsdl:input>
297. <soap:body use="literal"/>
298. </wsdl:input>
299. <wsdl:output>
300. <soap:body use="literal"/>
301. </wsdl:output>
302. </wsdl:operation>
303. <wsdl:operation name="GetCoauthUpdates">
304. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetCoauthUpdates" style="document"/>
305. <wsdl:input>
306. <soap:body use="literal"/>
307. </wsdl:input>
308. <wsdl:output>
309. <soap:body use="literal"/>
310. </wsdl:output>
311. </wsdl:operation>
312. <wsdl:operation name="GetEditPresInfo">
313. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfo" style="document"/>
314. <wsdl:input>
315. <soap:body use="literal"/>
316. </wsdl:input>
317. <wsdl:output>
318. <soap:body use="literal"/>
319. </wsdl:output>
320. </wsdl:operation>
321. <wsdl:operation name="GetEditPresInfoGetEditSlideById">
322. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresInfoGetEditSlideById" style="document"/>
323. <wsdl:input>
324. <soap:body use="literal"/>
325. </wsdl:input>
326. <wsdl:output>
327. <soap:body use="literal"/>
328. </wsdl:output>
329. </wsdl:operation>
330. <wsdl:operation name="GetEditPresResources">
331. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditPresResources" style="document"/>
332. <wsdl:input>
333. <soap:body use="literal"/>
334. </wsdl:input>
335. <wsdl:output>
336. <soap:body use="literal"/>
337. </wsdl:output>
338. </wsdl:operation>
339. <wsdl:operation name="GetEditSlide">
340. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/GetEditSlide" style="document"/>
341. <wsdl:input>
342. <soap:body use="literal"/>
343. </wsdl:input>
344. <wsdl:output>
345. <soap:body use="literal"/>
346. </wsdl:output>
347. </wsdl:operation>
348. <wsdl:operation name="MoveSlide">
349. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveSlide" style="document"/>
350. <wsdl:input>
351. <soap:body use="literal"/>
352. </wsdl:input>
353. <wsdl:output>
354. <soap:body use="literal"/>
355. </wsdl:output>
356. </wsdl:operation>
357. <wsdl:operation name="InsertSlide">
358. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSlide" style="document"/>
359. <wsdl:input>
360. <soap:body use="literal"/>
361. </wsdl:input>
362. <wsdl:output>
363. <soap:body use="literal"/>
364. </wsdl:output>
365. </wsdl:operation>
366. <wsdl:operation name="ReplaceText">
367. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceText" style="document"/>
368. <wsdl:input>
369. <soap:body use="literal"/>
370. </wsdl:input>
371. <wsdl:output>
372. <soap:body use="literal"/>
373. </wsdl:output>
374. </wsdl:operation>
375. <wsdl:operation name="SetAnimation">
376. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetAnimation" style="document"/>
377. <wsdl:input>
378. <soap:body use="literal"/>
379. </wsdl:input>
380. <wsdl:output>
381. <soap:body use="literal"/>
382. </wsdl:output>
383. </wsdl:operation>
384. <wsdl:operation name="SetTransition">
385. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransition" style="document"/>
386. <wsdl:input>
387. <soap:body use="literal"/>
388. </wsdl:input>
389. <wsdl:output>
390. <soap:body use="literal"/>
391. </wsdl:output>
392. </wsdl:operation>
393. <wsdl:operation name="SetTransitionApplyAll">
394. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetTransitionApplyAll" style="document"/>
395. <wsdl:input>
396. <soap:body use="literal"/>
397. </wsdl:input>
398. <wsdl:output>
399. <soap:body use="literal"/>
400. </wsdl:output>
401. </wsdl:operation>
402. <wsdl:operation name="ReorderAnimation">
403. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReorderAnimation" style="document"/>
404. <wsdl:input>
405. <soap:body use="literal"/>
406. </wsdl:input>
407. <wsdl:output>
408. <soap:body use="literal"/>
409. </wsdl:output>
410. </wsdl:operation>
411. <wsdl:operation name="ClearPlaceholder">
412. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ClearPlaceholder" style="document"/>
413. <wsdl:input>
414. <soap:body use="literal"/>
415. </wsdl:input>
416. <wsdl:output>
417. <soap:body use="literal"/>
418. </wsdl:output>
419. </wsdl:operation>
420. <wsdl:operation name="DeleteSlide">
421. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteSlide" style="document"/>
422. <wsdl:input>
423. <soap:body use="literal"/>
424. </wsdl:input>
425. <wsdl:output>
426. <soap:body use="literal"/>
427. </wsdl:output>
428. </wsdl:operation>
429. <wsdl:operation name="DuplicateSlide">
430. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateSlide" style="document"/>
431. <wsdl:input>
432. <soap:body use="literal"/>
433. </wsdl:input>
434. <wsdl:output>
435. <soap:body use="literal"/>
436. </wsdl:output>
437. </wsdl:operation>
438. <wsdl:operation name="ShowHideSlide">
439. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShowHideSlide" style="document"/>
440. <wsdl:input>
441. <soap:body use="literal"/>
442. </wsdl:input>
443. <wsdl:output>
444. <soap:body use="literal"/>
445. </wsdl:output>
446. </wsdl:operation>
447. <wsdl:operation name="ReplaceNotes">
448. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReplaceNotes" style="document"/>
449. <wsdl:input>
450. <soap:body use="literal"/>
451. </wsdl:input>
452. <wsdl:output>
453. <soap:body use="literal"/>
454. </wsdl:output>
455. </wsdl:operation>
456. <wsdl:operation name="Undo">
457. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Undo" style="document"/>
458. <wsdl:input>
459. <soap:body use="literal"/>
460. </wsdl:input>
461. <wsdl:output>
462. <soap:body use="literal"/>
463. </wsdl:output>
464. </wsdl:operation>
465. <wsdl:operation name="Redo">
466. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Redo" style="document"/>
467. <wsdl:input>
468. <soap:body use="literal"/>
469. </wsdl:input>
470. <wsdl:output>
471. <soap:body use="literal"/>
472. </wsdl:output>
473. </wsdl:operation>
474. <wsdl:operation name="ChangePictureStyle">
475. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangePictureStyle" style="document"/>
476. <wsdl:input>
477. <soap:body use="literal"/>
478. </wsdl:input>
479. <wsdl:output>
480. <soap:body use="literal"/>
481. </wsdl:output>
482. </wsdl:operation>
483. <wsdl:operation name="ResetPicture">
484. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetPicture" style="document"/>
485. <wsdl:input>
486. <soap:body use="literal"/>
487. </wsdl:input>
488. <wsdl:output>
489. <soap:body use="literal"/>
490. </wsdl:output>
491. </wsdl:operation>
492. <wsdl:operation name="MoveShape">
493. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveShape" style="document"/>
494. <wsdl:input>
495. <soap:body use="literal"/>
496. </wsdl:input>
497. <wsdl:output>
498. <soap:body use="literal"/>
499. </wsdl:output>
500. </wsdl:operation>
501. <wsdl:operation name="ResizeShape">
502. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResizeShape" style="document"/>
503. <wsdl:input>
504. <soap:body use="literal"/>
505. </wsdl:input>
506. <wsdl:output>
507. <soap:body use="literal"/>
508. </wsdl:output>
509. </wsdl:operation>
510. <wsdl:operation name="RotateShape">
511. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RotateShape" style="document"/>
512. <wsdl:input>
513. <soap:body use="literal"/>
514. </wsdl:input>
515. <wsdl:output>
516. <soap:body use="literal"/>
517. </wsdl:output>
518. </wsdl:operation>
519. <wsdl:operation name="FlipShape">
520. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/FlipShape" style="document"/>
521. <wsdl:input>
522. <soap:body use="literal"/>
523. </wsdl:input>
524. <wsdl:output>
525. <soap:body use="literal"/>
526. </wsdl:output>
527. </wsdl:operation>
528. <wsdl:operation name="InsertShape">
529. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertShape" style="document"/>
530. <wsdl:input>
531. <soap:body use="literal"/>
532. </wsdl:input>
533. <wsdl:output>
534. <soap:body use="literal"/>
535. </wsdl:output>
536. </wsdl:operation>
537. <wsdl:operation name="DuplicateShape">
538. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DuplicateShape" style="document"/>
539. <wsdl:input>
540. <soap:body use="literal"/>
541. </wsdl:input>
542. <wsdl:output>
543. <soap:body use="literal"/>
544. </wsdl:output>
545. </wsdl:operation>
546. <wsdl:operation name="ArrangeShape">
547. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ArrangeShape" style="document"/>
548. <wsdl:input>
549. <soap:body use="literal"/>
550. </wsdl:input>
551. <wsdl:output>
552. <soap:body use="literal"/>
553. </wsdl:output>
554. </wsdl:operation>
555. <wsdl:operation name="UngroupShape">
556. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UngroupShape" style="document"/>
557. <wsdl:input>
558. <soap:body use="literal"/>
559. </wsdl:input>
560. <wsdl:output>
561. <soap:body use="literal"/>
562. </wsdl:output>
563. </wsdl:operation>
564. <wsdl:operation name="ApplyShapeStyle">
565. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeStyle" style="document"/>
566. <wsdl:input>
567. <soap:body use="literal"/>
568. </wsdl:input>
569. <wsdl:output>
570. <soap:body use="literal"/>
571. </wsdl:output>
572. </wsdl:operation>
573. <wsdl:operation name="ApplyShapeFill">
574. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeFill" style="document"/>
575. <wsdl:input>
576. <soap:body use="literal"/>
577. </wsdl:input>
578. <wsdl:output>
579. <soap:body use="literal"/>
580. </wsdl:output>
581. </wsdl:operation>
582. <wsdl:operation name="RemoveShapeFill">
583. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeFill" style="document"/>
584. <wsdl:input>
585. <soap:body use="literal"/>
586. </wsdl:input>
587. <wsdl:output>
588. <soap:body use="literal"/>
589. </wsdl:output>
590. </wsdl:operation>
591. <wsdl:operation name="ApplyShapeOutlineColor">
592. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineColor" style="document"/>
593. <wsdl:input>
594. <soap:body use="literal"/>
595. </wsdl:input>
596. <wsdl:output>
597. <soap:body use="literal"/>
598. </wsdl:output>
599. </wsdl:operation>
600. <wsdl:operation name="ApplyShapeOutlineWidth">
601. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineWidth" style="document"/>
602. <wsdl:input>
603. <soap:body use="literal"/>
604. </wsdl:input>
605. <wsdl:output>
606. <soap:body use="literal"/>
607. </wsdl:output>
608. </wsdl:operation>
609. <wsdl:operation name="ApplyShapeOutlineDashStyle">
610. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineDashStyle" style="document"/>
611. <wsdl:input>
612. <soap:body use="literal"/>
613. </wsdl:input>
614. <wsdl:output>
615. <soap:body use="literal"/>
616. </wsdl:output>
617. </wsdl:operation>
618. <wsdl:operation name="ApplyShapeOutlineEndStyle">
619. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyShapeOutlineEndStyle" style="document"/>
620. <wsdl:input>
621. <soap:body use="literal"/>
622. </wsdl:input>
623. <wsdl:output>
624. <soap:body use="literal"/>
625. </wsdl:output>
626. </wsdl:operation>
627. <wsdl:operation name="RemoveShapeOutline">
628. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/RemoveShapeOutline" style="document"/>
629. <wsdl:input>
630. <soap:body use="literal"/>
631. </wsdl:input>
632. <wsdl:output>
633. <soap:body use="literal"/>
634. </wsdl:output>
635. </wsdl:operation>
636. <wsdl:operation name="SaveAndClose">
637. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SaveAndClose" style="document"/>
638. <wsdl:input>
639. <soap:body use="literal"/>
640. </wsdl:input>
641. <wsdl:output>
642. <soap:body use="literal"/>
643. </wsdl:output>
644. </wsdl:operation>
645. <wsdl:operation name="UpdateCanary">
646. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/UpdateCanary" style="document"/>
647. <wsdl:input>
648. <soap:body use="literal"/>
649. </wsdl:input>
650. <wsdl:output>
651. <soap:body use="literal"/>
652. </wsdl:output>
653. </wsdl:operation>
654. <wsdl:operation name="Print">
655. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/Print" style="document"/>
656. <wsdl:input>
657. <soap:body use="literal"/>
658. </wsdl:input>
659. <wsdl:output>
660. <soap:body use="literal"/>
661. </wsdl:output>
662. </wsdl:operation>
663. <wsdl:operation name="ChangeSmartArtLayout">
664. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtLayout" style="document"/>
665. <wsdl:input>
666. <soap:body use="literal"/>
667. </wsdl:input>
668. <wsdl:output>
669. <soap:body use="literal"/>
670. </wsdl:output>
671. </wsdl:operation>
672. <wsdl:operation name="ChangeSmartArtColor">
673. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtColor" style="document"/>
674. <wsdl:input>
675. <soap:body use="literal"/>
676. </wsdl:input>
677. <wsdl:output>
678. <soap:body use="literal"/>
679. </wsdl:output>
680. </wsdl:operation>
681. <wsdl:operation name="ChangeSmartArtStyle">
682. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeSmartArtStyle" style="document"/>
683. <wsdl:input>
684. <soap:body use="literal"/>
685. </wsdl:input>
686. <wsdl:output>
687. <soap:body use="literal"/>
688. </wsdl:output>
689. </wsdl:operation>
690. <wsdl:operation name="InsertSmartArt">
691. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertSmartArt" style="document"/>
692. <wsdl:input>
693. <soap:body use="literal"/>
694. </wsdl:input>
695. <wsdl:output>
696. <soap:body use="literal"/>
697. </wsdl:output>
698. </wsdl:operation>
699. <wsdl:operation name="ResetSmartArt">
700. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ResetSmartArt" style="document"/>
701. <wsdl:input>
702. <soap:body use="literal"/>
703. </wsdl:input>
704. <wsdl:output>
705. <soap:body use="literal"/>
706. </wsdl:output>
707. </wsdl:operation>
708. <wsdl:operation name="ReverseSmartArt">
709. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ReverseSmartArt" style="document"/>
710. <wsdl:input>
711. <soap:body use="literal"/>
712. </wsdl:input>
713. <wsdl:output>
714. <soap:body use="literal"/>
715. </wsdl:output>
716. </wsdl:operation>
717. <wsdl:operation name="ApplyTheme">
718. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ApplyTheme" style="document"/>
719. <wsdl:input>
720. <soap:body use="literal"/>
721. </wsdl:input>
722. <wsdl:output>
723. <soap:body use="literal"/>
724. </wsdl:output>
725. </wsdl:operation>
726. <wsdl:operation name="SetWordArt">
727. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetWordArt" style="document"/>
728. <wsdl:input>
729. <soap:body use="literal"/>
730. </wsdl:input>
731. <wsdl:output>
732. <soap:body use="literal"/>
733. </wsdl:output>
734. </wsdl:operation>
735. <wsdl:operation name="InsertClipart">
736. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/InsertClipart" style="document"/>
737. <wsdl:input>
738. <soap:body use="literal"/>
739. </wsdl:input>
740. <wsdl:output>
741. <soap:body use="literal"/>
742. </wsdl:output>
743. </wsdl:operation>
744. <wsdl:operation name="PastePicture">
745. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/PastePicture" style="document"/>
746. <wsdl:input>
747. <soap:body use="literal"/>
748. </wsdl:input>
749. <wsdl:output>
750. <soap:body use="literal"/>
751. </wsdl:output>
752. </wsdl:operation>
753. <wsdl:operation name="ShapeFormatPainting">
754. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ShapeFormatPainting" style="document"/>
755. <wsdl:input>
756. <soap:body use="literal"/>
757. </wsdl:input>
758. <wsdl:output>
759. <soap:body use="literal"/>
760. </wsdl:output>
761. </wsdl:operation>
762. <wsdl:operation name="AddComment">
763. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/AddComment" style="document"/>
764. <wsdl:input>
765. <soap:body use="literal"/>
766. </wsdl:input>
767. <wsdl:output>
768. <soap:body use="literal"/>
769. </wsdl:output>
770. </wsdl:operation>
771. <wsdl:operation name="DeleteComment">
772. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/DeleteComment" style="document"/>
773. <wsdl:input>
774. <soap:body use="literal"/>
775. </wsdl:input>
776. <wsdl:output>
777. <soap:body use="literal"/>
778. </wsdl:output>
779. </wsdl:operation>
780. <wsdl:operation name="EditComment">
781. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/EditComment" style="document"/>
782. <wsdl:input>
783. <soap:body use="literal"/>
784. </wsdl:input>
785. <wsdl:output>
786. <soap:body use="literal"/>
787. </wsdl:output>
788. </wsdl:operation>
789. <wsdl:operation name="MoveComment">
790. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/MoveComment" style="document"/>
791. <wsdl:input>
792. <soap:body use="literal"/>
793. </wsdl:input>
794. <wsdl:output>
795. <soap:body use="literal"/>
796. </wsdl:output>
797. </wsdl:operation>
798. <wsdl:operation name="SetShapeBold">
799. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBold" style="document"/>
800. <wsdl:input>
801. <soap:body use="literal"/>
802. </wsdl:input>
803. <wsdl:output>
804. <soap:body use="literal"/>
805. </wsdl:output>
806. </wsdl:operation>
807. <wsdl:operation name="SetShapeItalic">
808. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeItalic" style="document"/>
809. <wsdl:input>
810. <soap:body use="literal"/>
811. </wsdl:input>
812. <wsdl:output>
813. <soap:body use="literal"/>
814. </wsdl:output>
815. </wsdl:operation>
816. <wsdl:operation name="SetShapeUnderline">
817. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeUnderline" style="document"/>
818. <wsdl:input>
819. <soap:body use="literal"/>
820. </wsdl:input>
821. <wsdl:output>
822. <soap:body use="literal"/>
823. </wsdl:output>
824. </wsdl:operation>
825. <wsdl:operation name="SetShapeAlignment">
826. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeAlignment" style="document"/>
827. <wsdl:input>
828. <soap:body use="literal"/>
829. </wsdl:input>
830. <wsdl:output>
831. <soap:body use="literal"/>
832. </wsdl:output>
833. </wsdl:operation>
834. <wsdl:operation name="SetShapeFontName">
835. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontName" style="document"/>
836. <wsdl:input>
837. <soap:body use="literal"/>
838. </wsdl:input>
839. <wsdl:output>
840. <soap:body use="literal"/>
841. </wsdl:output>
842. </wsdl:operation>
843. <wsdl:operation name="SetShapeFontSize">
844. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontSize" style="document"/>
845. <wsdl:input>
846. <soap:body use="literal"/>
847. </wsdl:input>
848. <wsdl:output>
849. <soap:body use="literal"/>
850. </wsdl:output>
851. </wsdl:operation>
852. <wsdl:operation name="SetShapeFontColor">
853. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeFontColor" style="document"/>
854. <wsdl:input>
855. <soap:body use="literal"/>
856. </wsdl:input>
857. <wsdl:output>
858. <soap:body use="literal"/>
859. </wsdl:output>
860. </wsdl:operation>
861. <wsdl:operation name="SetShapeBullet">
862. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeBullet" style="document"/>
863. <wsdl:input>
864. <soap:body use="literal"/>
865. </wsdl:input>
866. <wsdl:output>
867. <soap:body use="literal"/>
868. </wsdl:output>
869. </wsdl:operation>
870. <wsdl:operation name="SetShapeTextDirection">
871. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/SetShapeTextDirection" style="document"/>
872. <wsdl:input>
873. <soap:body use="literal"/>
874. </wsdl:input>
875. <wsdl:output>
876. <soap:body use="literal"/>
877. </wsdl:output>
878. </wsdl:operation>
879. <wsdl:operation name="ChangeLayout">
880. <soap:operation soapAction="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/IPptEdit/ChangeLayout" style="document"/>
881. <wsdl:input>
882. <soap:body use="literal"/>
883. </wsdl:input>
884. <wsdl:output>
885. <soap:body use="literal"/>
886. </wsdl:output>
887. </wsdl:operation>
888. </wsdl:binding>
889. <wsdl:message name="IPptEdit\_AddComment\_InputMessage">
890. <wsdl:part name="parameters" element="tns:AddComment"/>
891. </wsdl:message>
892. <wsdl:message name="IPptEdit\_AddComment\_OutputMessage">
893. <wsdl:part name="parameters" element="tns:AddCommentResponse"/>
894. </wsdl:message>
895. <wsdl:message name="IPptEdit\_ApplyShapeFill\_InputMessage">
896. <wsdl:part name="parameters" element="tns:ApplyShapeFill"/>
897. </wsdl:message>
898. <wsdl:message name="IPptEdit\_ApplyShapeFill\_OutputMessage">
899. <wsdl:part name="parameters" element="tns:ApplyShapeFillResponse"/>
900. </wsdl:message>
901. <wsdl:message name="IPptEdit\_ApplyShapeOutlineColor\_InputMessage">
902. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineColor"/>
903. </wsdl:message>
904. <wsdl:message name="IPptEdit\_ApplyShapeOutlineColor\_OutputMessage">
905. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineColorResponse"/>
906. </wsdl:message>
907. <wsdl:message name="IPptEdit\_ApplyShapeOutlineDashStyle\_InputMessage">
908. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineDashStyle"/>
909. </wsdl:message>
910. <wsdl:message name="IPptEdit\_ApplyShapeOutlineDashStyle\_OutputMessage">
911. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineDashStyleResponse"/>
912. </wsdl:message>
913. <wsdl:message name="IPptEdit\_ApplyShapeOutlineEndStyle\_InputMessage">
914. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineEndStyle"/>
915. </wsdl:message>
916. <wsdl:message name="IPptEdit\_ApplyShapeOutlineEndStyle\_OutputMessage">
917. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineEndStyleResponse"/>
918. </wsdl:message>
919. <wsdl:message name="IPptEdit\_ApplyShapeOutlineWidth\_InputMessage">
920. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineWidth"/>
921. </wsdl:message>
922. <wsdl:message name="IPptEdit\_ApplyShapeOutlineWidth\_OutputMessage">
923. <wsdl:part name="parameters" element="tns:ApplyShapeOutlineWidthResponse"/>
924. </wsdl:message>
925. <wsdl:message name="IPptEdit\_ApplyShapeStyle\_InputMessage">
926. <wsdl:part name="parameters" element="tns:ApplyShapeStyle"/>
927. </wsdl:message>
928. <wsdl:message name="IPptEdit\_ApplyShapeStyle\_OutputMessage">
929. <wsdl:part name="parameters" element="tns:ApplyShapeStyleResponse"/>
930. </wsdl:message>
931. <wsdl:message name="IPptEdit\_ApplyTheme\_InputMessage">
932. <wsdl:part name="parameters" element="tns:ApplyTheme"/>
933. </wsdl:message>
934. <wsdl:message name="IPptEdit\_ApplyTheme\_OutputMessage">
935. <wsdl:part name="parameters" element="tns:ApplyThemeResponse"/>
936. </wsdl:message>
937. <wsdl:message name="IPptEdit\_ArrangeShape\_InputMessage">
938. <wsdl:part name="parameters" element="tns:ArrangeShape"/>
939. </wsdl:message>
940. <wsdl:message name="IPptEdit\_ArrangeShape\_OutputMessage">
941. <wsdl:part name="parameters" element="tns:ArrangeShapeResponse"/>
942. </wsdl:message>
943. <wsdl:message name="IPptEdit\_ChangeLayout\_InputMessage">
944. <wsdl:part name="parameters" element="tns:ChangeLayout"/>
945. </wsdl:message>
946. <wsdl:message name="IPptEdit\_ChangeLayout\_OutputMessage">
947. <wsdl:part name="parameters" element="tns:ChangeLayoutResponse"/>
948. </wsdl:message>
949. <wsdl:message name="IPptEdit\_ChangePictureStyle\_InputMessage">
950. <wsdl:part name="parameters" element="tns:ChangePictureStyle"/>
951. </wsdl:message>
952. <wsdl:message name="IPptEdit\_ChangePictureStyle\_OutputMessage">
953. <wsdl:part name="parameters" element="tns:ChangePictureStyleResponse"/>
954. </wsdl:message>
955. <wsdl:message name="IPptEdit\_ChangeSmartArtColor\_InputMessage">
956. <wsdl:part name="parameters" element="tns:ChangeSmartArtColor"/>
957. </wsdl:message>
958. <wsdl:message name="IPptEdit\_ChangeSmartArtColor\_OutputMessage">
959. <wsdl:part name="parameters" element="tns:ChangeSmartArtColorResponse"/>
960. </wsdl:message>
961. <wsdl:message name="IPptEdit\_ChangeSmartArtLayout\_InputMessage">
962. <wsdl:part name="parameters" element="tns:ChangeSmartArtLayout"/>
963. </wsdl:message>
964. <wsdl:message name="IPptEdit\_ChangeSmartArtLayout\_OutputMessage">
965. <wsdl:part name="parameters" element="tns:ChangeSmartArtLayoutResponse"/>
966. </wsdl:message>
967. <wsdl:message name="IPptEdit\_ChangeSmartArtStyle\_InputMessage">
968. <wsdl:part name="parameters" element="tns:ChangeSmartArtStyle"/>
969. </wsdl:message>
970. <wsdl:message name="IPptEdit\_ChangeSmartArtStyle\_OutputMessage">
971. <wsdl:part name="parameters" element="tns:ChangeSmartArtStyleResponse"/>
972. </wsdl:message>
973. <wsdl:message name="IPptEdit\_ClearPlaceholder\_InputMessage">
974. <wsdl:part name="parameters" element="tns:ClearPlaceholder"/>
975. </wsdl:message>
976. <wsdl:message name="IPptEdit\_ClearPlaceholder\_OutputMessage">
977. <wsdl:part name="parameters" element="tns:ClearPlaceholderResponse"/>
978. </wsdl:message>
979. <wsdl:message name="IPptEdit\_DeleteComment\_InputMessage">
980. <wsdl:part name="parameters" element="tns:DeleteComment"/>
981. </wsdl:message>
982. <wsdl:message name="IPptEdit\_DeleteComment\_OutputMessage">
983. <wsdl:part name="parameters" element="tns:DeleteCommentResponse"/>
984. </wsdl:message>
985. <wsdl:message name="IPptEdit\_DeleteSlide\_InputMessage">
986. <wsdl:part name="parameters" element="tns:DeleteSlide"/>
987. </wsdl:message>
988. <wsdl:message name="IPptEdit\_DeleteSlide\_OutputMessage">
989. <wsdl:part name="parameters" element="tns:DeleteSlideResponse"/>
990. </wsdl:message>
991. <wsdl:message name="IPptEdit\_DuplicateShape\_InputMessage">
992. <wsdl:part name="parameters" element="tns:DuplicateShape"/>
993. </wsdl:message>
994. <wsdl:message name="IPptEdit\_DuplicateShape\_OutputMessage">
995. <wsdl:part name="parameters" element="tns:DuplicateShapeResponse"/>
996. </wsdl:message>
997. <wsdl:message name="IPptEdit\_DuplicateSlide\_InputMessage">
998. <wsdl:part name="parameters" element="tns:DuplicateSlide"/>
999. </wsdl:message>
1000. <wsdl:message name="IPptEdit\_DuplicateSlide\_OutputMessage">
1001. <wsdl:part name="parameters" element="tns:DuplicateSlideResponse"/>
1002. </wsdl:message>
1003. <wsdl:message name="IPptEdit\_EditComment\_InputMessage">
1004. <wsdl:part name="parameters" element="tns:EditComment"/>
1005. </wsdl:message>
1006. <wsdl:message name="IPptEdit\_EditComment\_OutputMessage">
1007. <wsdl:part name="parameters" element="tns:EditCommentResponse"/>
1008. </wsdl:message>
1009. <wsdl:message name="IPptEdit\_FlipShape\_InputMessage">
1010. <wsdl:part name="parameters" element="tns:FlipShape"/>
1011. </wsdl:message>
1012. <wsdl:message name="IPptEdit\_FlipShape\_OutputMessage">
1013. <wsdl:part name="parameters" element="tns:FlipShapeResponse"/>
1014. </wsdl:message>
1015. <wsdl:message name="IPptEdit\_GetCoauthUpdates\_InputMessage">
1016. <wsdl:part name="parameters" element="tns:GetCoauthUpdates"/>
1017. </wsdl:message>
1018. <wsdl:message name="IPptEdit\_GetCoauthUpdates\_OutputMessage">
1019. <wsdl:part name="parameters" element="tns:GetCoauthUpdatesResponse"/>
1020. </wsdl:message>
1021. <wsdl:message name="IPptEdit\_GetEditPresInfo\_InputMessage">
1022. <wsdl:part name="parameters" element="tns:GetEditPresInfo"/>
1023. </wsdl:message>
1024. <wsdl:message name="IPptEdit\_GetEditPresInfo\_OutputMessage">
1025. <wsdl:part name="parameters" element="tns:GetEditPresInfoResponse"/>
1026. </wsdl:message>
1027. <wsdl:message name="IPptEdit\_GetEditPresInfoGetEditSlideById\_InputMessage">
1028. <wsdl:part name="parameters" element="tns:GetEditPresInfoGetEditSlideById"/>
1029. </wsdl:message>
1030. <wsdl:message name="IPptEdit\_GetEditPresInfoGetEditSlideById\_OutputMessage">
1031. <wsdl:part name="parameters" element="tns:GetEditPresInfoGetEditSlideByIdResponse"/>
1032. </wsdl:message>
1033. <wsdl:message name="IPptEdit\_GetEditPresResources\_InputMessage">
1034. <wsdl:part name="parameters" element="tns:GetEditPresResources"/>
1035. </wsdl:message>
1036. <wsdl:message name="IPptEdit\_GetEditPresResources\_OutputMessage">
1037. <wsdl:part name="parameters" element="tns:GetEditPresResourcesResponse"/>
1038. </wsdl:message>
1039. <wsdl:message name="IPptEdit\_GetEditSlide\_InputMessage">
1040. <wsdl:part name="parameters" element="tns:GetEditSlide"/>
1041. </wsdl:message>
1042. <wsdl:message name="IPptEdit\_GetEditSlide\_OutputMessage">
1043. <wsdl:part name="parameters" element="tns:GetEditSlideResponse"/>
1044. </wsdl:message>
1045. <wsdl:message name="IPptEdit\_GetPresentationId\_InputMessage">
1046. <wsdl:part name="parameters" element="tns:GetPresentationId"/>
1047. </wsdl:message>
1048. <wsdl:message name="IPptEdit\_GetPresentationId\_OutputMessage">
1049. <wsdl:part name="parameters" element="tns:GetPresentationIdResponse"/>
1050. </wsdl:message>
1051. <wsdl:message name="IPptEdit\_InsertClipart\_InputMessage">
1052. <wsdl:part name="parameters" element="tns:InsertClipart"/>
1053. </wsdl:message>
1054. <wsdl:message name="IPptEdit\_InsertClipart\_OutputMessage">
1055. <wsdl:part name="parameters" element="tns:InsertClipartResponse"/>
1056. </wsdl:message>
1057. <wsdl:message name="IPptEdit\_InsertShape\_InputMessage">
1058. <wsdl:part name="parameters" element="tns:InsertShape"/>
1059. </wsdl:message>
1060. <wsdl:message name="IPptEdit\_InsertShape\_OutputMessage">
1061. <wsdl:part name="parameters" element="tns:InsertShapeResponse"/>
1062. </wsdl:message>
1063. <wsdl:message name="IPptEdit\_InsertSlide\_InputMessage">
1064. <wsdl:part name="parameters" element="tns:InsertSlide"/>
1065. </wsdl:message>
1066. <wsdl:message name="IPptEdit\_InsertSlide\_OutputMessage">
1067. <wsdl:part name="parameters" element="tns:InsertSlideResponse"/>
1068. </wsdl:message>
1069. <wsdl:message name="IPptEdit\_InsertSmartArt\_InputMessage">
1070. <wsdl:part name="parameters" element="tns:InsertSmartArt"/>
1071. </wsdl:message>
1072. <wsdl:message name="IPptEdit\_InsertSmartArt\_OutputMessage">
1073. <wsdl:part name="parameters" element="tns:InsertSmartArtResponse"/>
1074. </wsdl:message>
1075. <wsdl:message name="IPptEdit\_LogULS\_InputMessage">
1076. <wsdl:part name="parameters" element="tns:LogULS"/>
1077. </wsdl:message>
1078. <wsdl:message name="IPptEdit\_LogULS\_OutputMessage">
1079. <wsdl:part name="parameters" element="tns:LogULSResponse"/>
1080. </wsdl:message>
1081. <wsdl:message name="IPptEdit\_MoveComment\_InputMessage">
1082. <wsdl:part name="parameters" element="tns:MoveComment"/>
1083. </wsdl:message>
1084. <wsdl:message name="IPptEdit\_MoveComment\_OutputMessage">
1085. <wsdl:part name="parameters" element="tns:MoveCommentResponse"/>
1086. </wsdl:message>
1087. <wsdl:message name="IPptEdit\_MoveShape\_InputMessage">
1088. <wsdl:part name="parameters" element="tns:MoveShape"/>
1089. </wsdl:message>
1090. <wsdl:message name="IPptEdit\_MoveShape\_OutputMessage">
1091. <wsdl:part name="parameters" element="tns:MoveShapeResponse"/>
1092. </wsdl:message>
1093. <wsdl:message name="IPptEdit\_MoveSlide\_InputMessage">
1094. <wsdl:part name="parameters" element="tns:MoveSlide"/>
1095. </wsdl:message>
1096. <wsdl:message name="IPptEdit\_MoveSlide\_OutputMessage">
1097. <wsdl:part name="parameters" element="tns:MoveSlideResponse"/>
1098. </wsdl:message>
1099. <wsdl:message name="IPptEdit\_PastePicture\_InputMessage">
1100. <wsdl:part name="parameters" element="tns:PastePicture"/>
1101. </wsdl:message>
1102. <wsdl:message name="IPptEdit\_PastePicture\_OutputMessage">
1103. <wsdl:part name="parameters" element="tns:PastePictureResponse"/>
1104. </wsdl:message>
1105. <wsdl:message name="IPptEdit\_Print\_InputMessage">
1106. <wsdl:part name="parameters" element="tns:Print"/>
1107. </wsdl:message>
1108. <wsdl:message name="IPptEdit\_Print\_OutputMessage">
1109. <wsdl:part name="parameters" element="tns:PrintResponse"/>
1110. </wsdl:message>
1111. <wsdl:message name="IPptEdit\_Redo\_InputMessage">
1112. <wsdl:part name="parameters" element="tns:Redo"/>
1113. </wsdl:message>
1114. <wsdl:message name="IPptEdit\_Redo\_OutputMessage">
1115. <wsdl:part name="parameters" element="tns:RedoResponse"/>
1116. </wsdl:message>
1117. <wsdl:message name="IPptEdit\_RemoveShapeFill\_InputMessage">
1118. <wsdl:part name="parameters" element="tns:RemoveShapeFill"/>
1119. </wsdl:message>
1120. <wsdl:message name="IPptEdit\_RemoveShapeFill\_OutputMessage">
1121. <wsdl:part name="parameters" element="tns:RemoveShapeFillResponse"/>
1122. </wsdl:message>
1123. <wsdl:message name="IPptEdit\_RemoveShapeOutline\_InputMessage">
1124. <wsdl:part name="parameters" element="tns:RemoveShapeOutline"/>
1125. </wsdl:message>
1126. <wsdl:message name="IPptEdit\_RemoveShapeOutline\_OutputMessage">
1127. <wsdl:part name="parameters" element="tns:RemoveShapeOutlineResponse"/>
1128. </wsdl:message>
1129. <wsdl:message name="IPptEdit\_ReorderAnimation\_InputMessage">
1130. <wsdl:part name="parameters" element="tns:ReorderAnimation"/>
1131. </wsdl:message>
1132. <wsdl:message name="IPptEdit\_ReorderAnimation\_OutputMessage">
1133. <wsdl:part name="parameters" element="tns:ReorderAnimationResponse"/>
1134. </wsdl:message>
1135. <wsdl:message name="IPptEdit\_ReplaceNotes\_InputMessage">
1136. <wsdl:part name="parameters" element="tns:ReplaceNotes"/>
1137. </wsdl:message>
1138. <wsdl:message name="IPptEdit\_ReplaceNotes\_OutputMessage">
1139. <wsdl:part name="parameters" element="tns:ReplaceNotesResponse"/>
1140. </wsdl:message>
1141. <wsdl:message name="IPptEdit\_ReplaceText\_InputMessage">
1142. <wsdl:part name="parameters" element="tns:ReplaceText"/>
1143. </wsdl:message>
1144. <wsdl:message name="IPptEdit\_ReplaceText\_OutputMessage">
1145. <wsdl:part name="parameters" element="tns:ReplaceTextResponse"/>
1146. </wsdl:message>
1147. <wsdl:message name="IPptEdit\_ResetPicture\_InputMessage">
1148. <wsdl:part name="parameters" element="tns:ResetPicture"/>
1149. </wsdl:message>
1150. <wsdl:message name="IPptEdit\_ResetPicture\_OutputMessage">
1151. <wsdl:part name="parameters" element="tns:ResetPictureResponse"/>
1152. </wsdl:message>
1153. <wsdl:message name="IPptEdit\_ResetSmartArt\_InputMessage">
1154. <wsdl:part name="parameters" element="tns:ResetSmartArt"/>
1155. </wsdl:message>
1156. <wsdl:message name="IPptEdit\_ResetSmartArt\_OutputMessage">
1157. <wsdl:part name="parameters" element="tns:ResetSmartArtResponse"/>
1158. </wsdl:message>
1159. <wsdl:message name="IPptEdit\_ResizeShape\_InputMessage">
1160. <wsdl:part name="parameters" element="tns:ResizeShape"/>
1161. </wsdl:message>
1162. <wsdl:message name="IPptEdit\_ResizeShape\_OutputMessage">
1163. <wsdl:part name="parameters" element="tns:ResizeShapeResponse"/>
1164. </wsdl:message>
1165. <wsdl:message name="IPptEdit\_ReverseSmartArt\_InputMessage">
1166. <wsdl:part name="parameters" element="tns:ReverseSmartArt"/>
1167. </wsdl:message>
1168. <wsdl:message name="IPptEdit\_ReverseSmartArt\_OutputMessage">
1169. <wsdl:part name="parameters" element="tns:ReverseSmartArtResponse"/>
1170. </wsdl:message>
1171. <wsdl:message name="IPptEdit\_RotateShape\_InputMessage">
1172. <wsdl:part name="parameters" element="tns:RotateShape"/>
1173. </wsdl:message>
1174. <wsdl:message name="IPptEdit\_RotateShape\_OutputMessage">
1175. <wsdl:part name="parameters" element="tns:RotateShapeResponse"/>
1176. </wsdl:message>
1177. <wsdl:message name="IPptEdit\_SaveAndClose\_InputMessage">
1178. <wsdl:part name="parameters" element="tns:SaveAndClose"/>
1179. </wsdl:message>
1180. <wsdl:message name="IPptEdit\_SaveAndClose\_OutputMessage">
1181. <wsdl:part name="parameters" element="tns:SaveAndCloseResponse"/>
1182. </wsdl:message>
1183. <wsdl:message name="IPptEdit\_SetAnimation\_InputMessage">
1184. <wsdl:part name="parameters" element="tns:SetAnimation"/>
1185. </wsdl:message>
1186. <wsdl:message name="IPptEdit\_SetAnimation\_OutputMessage">
1187. <wsdl:part name="parameters" element="tns:SetAnimationResponse"/>
1188. </wsdl:message>
1189. <wsdl:message name="IPptEdit\_SetShapeAlignment\_InputMessage">
1190. <wsdl:part name="parameters" element="tns:SetShapeAlignment"/>
1191. </wsdl:message>
1192. <wsdl:message name="IPptEdit\_SetShapeAlignment\_OutputMessage">
1193. <wsdl:part name="parameters" element="tns:SetShapeAlignmentResponse"/>
1194. </wsdl:message>
1195. <wsdl:message name="IPptEdit\_SetShapeBold\_InputMessage">
1196. <wsdl:part name="parameters" element="tns:SetShapeBold"/>
1197. </wsdl:message>
1198. <wsdl:message name="IPptEdit\_SetShapeBold\_OutputMessage">
1199. <wsdl:part name="parameters" element="tns:SetShapeBoldResponse"/>
1200. </wsdl:message>
1201. <wsdl:message name="IPptEdit\_SetShapeBullet\_InputMessage">
1202. <wsdl:part name="parameters" element="tns:SetShapeBullet"/>
1203. </wsdl:message>
1204. <wsdl:message name="IPptEdit\_SetShapeBullet\_OutputMessage">
1205. <wsdl:part name="parameters" element="tns:SetShapeBulletResponse"/>
1206. </wsdl:message>
1207. <wsdl:message name="IPptEdit\_SetShapeFontColor\_InputMessage">
1208. <wsdl:part name="parameters" element="tns:SetShapeFontColor"/>
1209. </wsdl:message>
1210. <wsdl:message name="IPptEdit\_SetShapeFontColor\_OutputMessage">
1211. <wsdl:part name="parameters" element="tns:SetShapeFontColorResponse"/>
1212. </wsdl:message>
1213. <wsdl:message name="IPptEdit\_SetShapeFontName\_InputMessage">
1214. <wsdl:part name="parameters" element="tns:SetShapeFontName"/>
1215. </wsdl:message>
1216. <wsdl:message name="IPptEdit\_SetShapeFontName\_OutputMessage">
1217. <wsdl:part name="parameters" element="tns:SetShapeFontNameResponse"/>
1218. </wsdl:message>
1219. <wsdl:message name="IPptEdit\_SetShapeFontSize\_InputMessage">
1220. <wsdl:part name="parameters" element="tns:SetShapeFontSize"/>
1221. </wsdl:message>
1222. <wsdl:message name="IPptEdit\_SetShapeFontSize\_OutputMessage">
1223. <wsdl:part name="parameters" element="tns:SetShapeFontSizeResponse"/>
1224. </wsdl:message>
1225. <wsdl:message name="IPptEdit\_SetShapeItalic\_InputMessage">
1226. <wsdl:part name="parameters" element="tns:SetShapeItalic"/>
1227. </wsdl:message>
1228. <wsdl:message name="IPptEdit\_SetShapeItalic\_OutputMessage">
1229. <wsdl:part name="parameters" element="tns:SetShapeItalicResponse"/>
1230. </wsdl:message>
1231. <wsdl:message name="IPptEdit\_SetShapeTextDirection\_InputMessage">
1232. <wsdl:part name="parameters" element="tns:SetShapeTextDirection"/>
1233. </wsdl:message>
1234. <wsdl:message name="IPptEdit\_SetShapeTextDirection\_OutputMessage">
1235. <wsdl:part name="parameters" element="tns:SetShapeTextDirectionResponse"/>
1236. </wsdl:message>
1237. <wsdl:message name="IPptEdit\_SetShapeUnderline\_InputMessage">
1238. <wsdl:part name="parameters" element="tns:SetShapeUnderline"/>
1239. </wsdl:message>
1240. <wsdl:message name="IPptEdit\_SetShapeUnderline\_OutputMessage">
1241. <wsdl:part name="parameters" element="tns:SetShapeUnderlineResponse"/>
1242. </wsdl:message>
1243. <wsdl:message name="IPptEdit\_SetTransition\_InputMessage">
1244. <wsdl:part name="parameters" element="tns:SetTransition"/>
1245. </wsdl:message>
1246. <wsdl:message name="IPptEdit\_SetTransition\_OutputMessage">
1247. <wsdl:part name="parameters" element="tns:SetTransitionResponse"/>
1248. </wsdl:message>
1249. <wsdl:message name="IPptEdit\_SetTransitionApplyAll\_InputMessage">
1250. <wsdl:part name="parameters" element="tns:SetTransitionApplyAll"/>
1251. </wsdl:message>
1252. <wsdl:message name="IPptEdit\_SetTransitionApplyAll\_OutputMessage">
1253. <wsdl:part name="parameters" element="tns:SetTransitionApplyAllResponse"/>
1254. </wsdl:message>
1255. <wsdl:message name="IPptEdit\_SetWordArt\_InputMessage">
1256. <wsdl:part name="parameters" element="tns:SetWordArt"/>
1257. </wsdl:message>
1258. <wsdl:message name="IPptEdit\_SetWordArt\_OutputMessage">
1259. <wsdl:part name="parameters" element="tns:SetWordArtResponse"/>
1260. </wsdl:message>
1261. <wsdl:message name="IPptEdit\_ShapeFormatPainting\_InputMessage">
1262. <wsdl:part name="parameters" element="tns:ShapeFormatPainting"/>
1263. </wsdl:message>
1264. <wsdl:message name="IPptEdit\_ShapeFormatPainting\_OutputMessage">
1265. <wsdl:part name="parameters" element="tns:ShapeFormatPaintingResponse"/>
1266. </wsdl:message>
1267. <wsdl:message name="IPptEdit\_ShowHideSlide\_InputMessage">
1268. <wsdl:part name="parameters" element="tns:ShowHideSlide"/>
1269. </wsdl:message>
1270. <wsdl:message name="IPptEdit\_ShowHideSlide\_OutputMessage">
1271. <wsdl:part name="parameters" element="tns:ShowHideSlideResponse"/>
1272. </wsdl:message>
1273. <wsdl:message name="IPptEdit\_Undo\_InputMessage">
1274. <wsdl:part name="parameters" element="tns:Undo"/>
1275. </wsdl:message>
1276. <wsdl:message name="IPptEdit\_Undo\_OutputMessage">
1277. <wsdl:part name="parameters" element="tns:UndoResponse"/>
1278. </wsdl:message>
1279. <wsdl:message name="IPptEdit\_UngroupShape\_InputMessage">
1280. <wsdl:part name="parameters" element="tns:UngroupShape"/>
1281. </wsdl:message>
1282. <wsdl:message name="IPptEdit\_UngroupShape\_OutputMessage">
1283. <wsdl:part name="parameters" element="tns:UngroupShapeResponse"/>
1284. </wsdl:message>
1285. <wsdl:message name="IPptEdit\_UpdateCanary\_InputMessage">
1286. <wsdl:part name="parameters" element="tns:UpdateCanary"/>
1287. </wsdl:message>
1288. <wsdl:message name="IPptEdit\_UpdateCanary\_OutputMessage">
1289. <wsdl:part name="parameters" element="tns:UpdateCanaryResponse"/>
1290. </wsdl:message>
1291. </wsdl:definitions>

# Appendix B: Full XML Schema

| Schema name | Prefix | Section |
| --- | --- | --- |
| http://schemas.datacontract.org/2004/07  /Microsoft.Office.Server.Powerpoint.Interface.Shared | tns1 | [7.1](#Section_208a6cec5c5e4ff293278032226eeab6) |
| http://schemas.datacontract.org/2004/07  /Microsoft.Office.Server.Powerpoint.Pipe.Interface | tns2 | [7.2](#Section_6f24ea9b88524be8b26786ff6a454d9a) |
| http://schemas.datacontract.org/2004/07/p | tns3 | [7.3](#Section_d0c3181d0e0642b8a01ba571f16ccc39) |
| http://schemas.microsoft.com/2003/10/Serialization/Arrays | q3 | [7.4](#Section_8444ef7ec5224096b00a3a26ce75099d) |
| http://schemas.microsoft.com/2003/10/Serialization/ | tns4 | [7.5](#Section_db1adaca048d4287932668c4670d90a0) |
| http://schemas.microsoft.com/office/PowerPoint/Server/WebServices  /PowerPointEditServerInternalService/ | tns | [7.6](#Section_43223e3f044d4368bf2304bead944057) |

For ease of implementation, the following sections provide the full XML schema for this protocol.

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:simpleType name="ErrorCode">
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="ErrorRESERVEDSuccess"/>
6. <xs:enumeration value="ErrorRESERVEDUnknown"/>
7. <xs:enumeration value="ErrorCannotOpenDocumentFileType"/>
8. <xs:enumeration value="ErrorCannotOpenDocumentIRM"/>
9. <xs:enumeration value="ErrorCannotOpenDocumentPassword"/>
10. <xs:enumeration value="ErrorCannotOpenDocument"/>
11. <xs:enumeration value="ErrorCannotInstallFonts"/>
12. <xs:enumeration value="ErrorCannotConvertModifyPassword"/>
13. <xs:enumeration value="ErrorCannotComposeSlideParse"/>
14. <xs:enumeration value="ErrorCannotComposeSlideUnexpected"/>
15. <xs:enumeration value="ErrorWacConversionFailure"/>
16. <xs:enumeration value="ErrorResourceNotGenerated"/>
17. <xs:enumeration value="ErrorGenericSlideCorruption"/>
18. <xs:enumeration value="ErrorFileNotFound"/>
19. <xs:enumeration value="ErrorGeneralUnknown"/>
20. <xs:enumeration value="ErrorFailedToOpenDocument"/>
21. <xs:enumeration value="ErrorFailedToRetrieveResource"/>
22. <xs:enumeration value="ErrorFailedToRenderDocument"/>
23. <xs:enumeration value="ErrorFailedToRenderSlide"/>
24. <xs:enumeration value="ErrorFailedToSaveDocument"/>
25. <xs:enumeration value="ErrorCannotSaveDocument"/>
26. <xs:enumeration value="ErrorInvalidCommand"/>
27. <xs:enumeration value="ErrorDocVersionMismatch"/>
28. <xs:enumeration value="ErrorCannotAcquirePptEditLock"/>
29. <xs:enumeration value="ErrorRequiresCheckout"/>
30. <xs:enumeration value="ErrorLockedForOfflineCheckout"/>
31. <xs:enumeration value="ErrorLockedByAnotherUser"/>
32. <xs:enumeration value="ErrorAccessDenied"/>
33. <xs:enumeration value="ErrorNoLicense"/>
34. <xs:enumeration value="ErrorRequestTooBig"/>
35. <xs:enumeration value="ErrorTextTooBig"/>
36. <xs:enumeration value="ErrorTryAgain"/>
37. <xs:enumeration value="ErrorUnexpected"/>
38. <xs:enumeration value="ErrorCannotOpenDocumentMacro"/>
39. <xs:enumeration value="ErrorCannotOpenDocumentFinal"/>
40. <xs:enumeration value="ErrorCannotOpenDocumentSigned"/>
41. <xs:enumeration value="ErrorCannotOpenEmbeddedFonts"/>
42. <xs:enumeration value="ErrorNoAvailableEditAppServer"/>
43. <xs:enumeration value="ErrorServiceUnavailable"/>
44. <xs:enumeration value="ErrorPptEditExistingExclusiveLock"/>
45. <xs:enumeration value="ErrorPptEditCheckedOutByAnother"/>
46. <xs:enumeration value="ErrorCannotOpenDocumentGatekeeperFailure"/>
47. <xs:enumeration value="ErrorEditWorkerTimeout"/>
48. <xs:enumeration value="ErrorEditSlideCorruption"/>
49. <xs:enumeration value="ErrorServiceBusy"/>
50. <xs:enumeration value="ErrorClipartCannotConnect"/>
51. <xs:enumeration value="ErrorClipartCannotDownload"/>
52. <xs:enumeration value="ErrorMediaNotEnabled"/>
53. <xs:enumeration value="ErrorUnsupportedMediaFormat"/>
54. <xs:enumeration value="ErrorLinkedMediaNotEnabled"/>
55. <xs:enumeration value="ErrorUnsupportedLinkTarget"/>
56. <xs:enumeration value="ErrorEmbeddedMediaNotEnabled"/>
57. <xs:enumeration value="ErrorEmbeddedMediaExceedsMaxSize"/>
58. <xs:enumeration value="ErrorTranscodingNotEnabled"/>
59. <xs:enumeration value="ErrorMediaUnavailable"/>
60. <xs:enumeration value="ErrorCannotOpenODPDocumentPassword"/>
61. <xs:enumeration value="ErrorLocalChangeLostDueToCoautherEdit"/>
62. <xs:enumeration value="ErrorNumberOfCoauthorsReachedMax"/>
63. <xs:enumeration value="ErrorCannotAcquirePptEditSharedLock"/>
64. <xs:enumeration value="ErrorInProgress"/>
65. <xs:enumeration value="ErrorImageTooLarge"/>
66. <xs:enumeration value="ErrorImageWrongFormat"/>
67. <xs:enumeration value="ErrorImageNoAccess"/>
68. <xs:enumeration value="ErrorWacItemRetrievalDocumentOutputNotFound"/>
69. <xs:enumeration value="ErrorWacItemRetrievalAccessDenied"/>
70. <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamDirty"/>
71. <xs:enumeration value="ErrorWacItemRetrievalCommunicationErrorStreamClean"/>
72. <xs:enumeration value="ErrorWacItemRetrievalUnknownError"/>
73. <xs:enumeration value="ErrorWacConversionManagerDoesNotSupportThisRequest"/>
74. <xs:enumeration value="ErrorWacConversionCannotFindSourceDocument"/>
75. <xs:enumeration value="ErrorWacConversionWorkerException"/>
76. <xs:enumeration value="ErrorWacConversionWorkerCrashed"/>
77. <xs:enumeration value="ErrorWacConversionWorkerHung"/>
78. <xs:enumeration value="ErrorWacConversionUnknownResponse"/>
79. <xs:enumeration value="ErrorWacConversionUnknownError"/>
80. <xs:enumeration value="ErrorWacConversionFirstServerResult"/>
81. <xs:enumeration value="ErrorCannotOpenDocumentWrongExt"/>
82. <xs:enumeration value="ErrorCannotOpenDocumentStgDocFileCorrupt"/>
83. <xs:enumeration value="ErrorCannotOpenDocumentStgFileAlreadyExists"/>
84. <xs:enumeration value="ErrorCannotOpenDocumentMmcfPackagePartNotFound"/>
85. <xs:enumeration value="ErrorCannotOpenDocumentArchiveError"/>
86. <xs:enumeration value="ErrorCannotPastePictureCannotCreateUrl"/>
87. <xs:enumeration value="ErrorCannotPastePictureInvalidResponse"/>
88. <xs:enumeration value="ErrorCannotPastePictureNotFound"/>
89. <xs:enumeration value="ErrorCannotPastePictureResponseEmpty"/>
90. <xs:enumeration value="ErrorCannotPastePictureUnexpectedStatusCode"/>
91. <xs:enumeration value="ErrorCannotPastePictureUnexpectedWebException"/>
92. <xs:enumeration value="ErrorRESERVEDLastError"/>
93. </xs:restriction>
94. </xs:simpleType>
95. <xs:element name="ErrorCode" nillable="true" type="tns1:ErrorCode"/>
96. </xs:schema>

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns2="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">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:simpleType name="ClientActions">
5. <xs:list>
6. <xs:simpleType>
7. <xs:restriction base="xs:string">
8. <xs:enumeration value="None"/>
9. <xs:enumeration value="Dismiss"/>
10. <xs:enumeration value="Close"/>
11. <xs:enumeration value="OpenInClient"/>
12. <xs:enumeration value="Refresh"/>
13. </xs:restriction>
14. </xs:simpleType>
15. </xs:list>
16. </xs:simpleType>
17. <xs:element name="ClientActions" nillable="true" type="tns2:ClientActions"/>
18. </xs:schema>

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

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns3="http://schemas.datacontract.org/2004/07/p" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/p" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared"/>
4. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface"/>
5. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
6. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
7. <xs:complexType name="ServiceResult">
8. <xs:sequence>
9. <xs:element minOccurs="0" name="Error" nillable="true" type="tns3:ServiceError"/>
10. <xs:element minOccurs="0" name="Result" nillable="true" type="xs:anyType"/>
11. </xs:sequence>
12. </xs:complexType>
13. <xs:element name="ServiceResult" nillable="true" type="tns3:ServiceResult"/>
14. <xs:complexType name="ServiceError">
15. <xs:sequence>
16. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared" minOccurs="0" name="Code" type="tns1:ErrorCode"/>
17. <xs:element minOccurs="0" name="Message" nillable="true" type="xs:string"/>
18. <xs:element xmlns:tns2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface" minOccurs="0" name="RecommendedActions" type="tns2:ClientActions"/>
19. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
20. <xs:element minOccurs="0" name="Type" type="tns3:ServiceErrorType"/>
21. </xs:sequence>
22. </xs:complexType>
23. <xs:element name="ServiceError" nillable="true" type="tns3:ServiceError"/>
24. <xs:simpleType name="ServiceErrorType">
25. <xs:restriction base="xs:string">
26. <xs:enumeration value="UnknownError"/>
27. <xs:enumeration value="ApplicationError"/>
28. <xs:enumeration value="Timeout"/>
29. <xs:enumeration value="ServiceBusy"/>
30. <xs:enumeration value="SessionFull"/>
31. </xs:restriction>
32. </xs:simpleType>
33. <xs:element name="ServiceErrorType" nillable="true" type="tns3:ServiceErrorType"/>
34. <xs:complexType name="CoauthUpdate">
35. <xs:sequence>
36. <xs:element minOccurs="0" name="State" nillable="true" type="tns3:CoauthState"/>
37. <xs:element minOccurs="0" name="Token" nillable="true" type="xs:string"/>
38. </xs:sequence>
39. </xs:complexType>
40. <xs:element name="CoauthUpdate" nillable="true" type="tns3:CoauthUpdate"/>
41. <xs:complexType name="CoauthState">
42. <xs:sequence>
43. <xs:element minOccurs="0" name="cs" type="xs:int"/>
44. <xs:element minOccurs="0" name="et" nillable="true" type="tns3:ArrayOfEditorInfo"/>
45. <xs:element minOccurs="0" name="lsave" type="xs:dateTime"/>
46. <xs:element minOccurs="0" name="lsmce" type="xs:dateTime"/>
47. <xs:element minOccurs="0" name="lsum" type="xs:dateTime"/>
48. <xs:element minOccurs="0" name="meid" nillable="true" type="xs:string"/>
49. <xs:element minOccurs="0" name="sui" nillable="true" type="tns3:ContentUpdateInfo"/>
50. </xs:sequence>
51. </xs:complexType>
52. <xs:element name="CoauthState" nillable="true" type="tns3:CoauthState"/>
53. <xs:complexType name="ArrayOfEditorInfo">
54. <xs:sequence>
55. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditorInfo" nillable="true" type="tns3:EditorInfo"/>
56. </xs:sequence>
57. </xs:complexType>
58. <xs:element name="ArrayOfEditorInfo" nillable="true" type="tns3:ArrayOfEditorInfo"/>
59. <xs:complexType name="EditorInfo">
60. <xs:sequence>
61. <xs:element minOccurs="0" name="EmailAddress" nillable="true" type="xs:string"/>
62. <xs:element minOccurs="0" name="ID" nillable="true" type="xs:string"/>
63. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
64. <xs:element minOccurs="0" name="SIPAddress" nillable="true" type="xs:string"/>
65. <xs:element minOccurs="0" name="TimeOut" nillable="true" type="xs:string"/>
66. <xs:element minOccurs="0" name="UserName" nillable="true" type="xs:string"/>
67. </xs:sequence>
68. </xs:complexType>
69. <xs:element name="EditorInfo" nillable="true" type="tns3:EditorInfo"/>
70. <xs:complexType name="ContentUpdateInfo">
71. <xs:sequence>
72. <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
73. <xs:element minOccurs="0" name="lplu" type="xs:dateTime"/>
74. <xs:element minOccurs="0" name="redo" type="xs:boolean"/>
75. <xs:element minOccurs="0" name="sui" nillable="true" type="tns3:ArrayOfSlideUpdateInfo"/>
76. <xs:element minOccurs="0" name="undo" type="xs:boolean"/>
77. </xs:sequence>
78. </xs:complexType>
79. <xs:element name="ContentUpdateInfo" nillable="true" type="tns3:ContentUpdateInfo"/>
80. <xs:complexType name="ArrayOfSlideUpdateInfo">
81. <xs:sequence>
82. <xs:element minOccurs="0" maxOccurs="unbounded" name="SlideUpdateInfo" nillable="true" type="tns3:SlideUpdateInfo"/>
83. </xs:sequence>
84. </xs:complexType>
85. <xs:element name="ArrayOfSlideUpdateInfo" nillable="true" type="tns3:ArrayOfSlideUpdateInfo"/>
86. <xs:complexType name="SlideUpdateInfo">
87. <xs:sequence>
88. <xs:element minOccurs="0" name="leid" nillable="true" type="xs:string"/>
89. <xs:element minOccurs="0" name="lsu" type="xs:dateTime"/>
90. <xs:element minOccurs="0" name="sid" type="tns3:SlideID"/>
91. </xs:sequence>
92. </xs:complexType>
93. <xs:element name="SlideUpdateInfo" nillable="true" type="tns3:SlideUpdateInfo"/>
94. <xs:complexType name="SlideID">
95. <xs:sequence>
96. <xs:element minOccurs="0" name="Cid" type="xs:unsignedInt"/>
97. <xs:element minOccurs="0" name="Sid" type="xs:unsignedInt"/>
98. </xs:sequence>
99. </xs:complexType>
100. <xs:element name="SlideID" nillable="true" type="tns3:SlideID"/>
101. <xs:complexType name="EditPresentationInfo">
102. <xs:sequence>
103. <xs:element minOccurs="0" name="CompatProblems" type="xs:boolean"/>
104. <xs:element minOccurs="0" name="EditSlideInfos" nillable="true" type="tns3:ArrayOfEditSlideInfoFe"/>
105. <xs:element minOccurs="0" name="FirstSlideIndex" type="xs:unsignedInt"/>
106. <xs:element minOccurs="0" name="MainMasters" nillable="true" type="tns3:ArrayOfMainMasterFe"/>
107. <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
108. <xs:element minOccurs="0" name="Rtl" type="xs:boolean"/>
109. <xs:element minOccurs="0" name="Size" nillable="true" type="tns3:Point"/>
110. <xs:element minOccurs="0" name="Slide" nillable="true" type="tns3:EditSlide"/>
111. <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
112. <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
113. </xs:sequence>
114. </xs:complexType>
115. <xs:element name="EditPresentationInfo" nillable="true" type="tns3:EditPresentationInfo"/>
116. <xs:complexType name="ArrayOfEditSlideInfoFe">
117. <xs:sequence>
118. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideInfoFe" nillable="true" type="tns3:EditSlideInfoFe"/>
119. </xs:sequence>
120. </xs:complexType>
121. <xs:element name="ArrayOfEditSlideInfoFe" nillable="true" type="tns3:ArrayOfEditSlideInfoFe"/>
122. <xs:complexType name="EditSlideInfoFe">
123. <xs:sequence>
124. <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
125. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
126. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
127. <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3:ViewElement"/>
128. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
129. </xs:sequence>
130. </xs:complexType>
131. <xs:element name="EditSlideInfoFe" nillable="true" type="tns3:EditSlideInfoFe"/>
132. <xs:complexType name="ViewElement">
133. <xs:sequence>
134. <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
135. <xs:element minOccurs="0" name="Clip" nillable="true" type="tns3:ClippingInfo"/>
136. <xs:element minOccurs="0" name="Html" nillable="true" type="xs:string"/>
137. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
138. <xs:element minOccurs="0" name="ImgId" nillable="true" type="xs:string"/>
139. <xs:element minOccurs="0" name="Position" nillable="true" type="tns3:Point"/>
140. <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
141. </xs:sequence>
142. </xs:complexType>
143. <xs:element name="ViewElement" nillable="true" type="tns3:ViewElement"/>
144. <xs:complexType name="ClippingInfo">
145. <xs:sequence>
146. <xs:element minOccurs="0" name="Bounds" nillable="true" type="tns3:Rectangle"/>
147. <xs:element minOccurs="0" name="TotalHeight" type="xs:int"/>
148. <xs:element minOccurs="0" name="TotalWidth" type="xs:int"/>
149. </xs:sequence>
150. </xs:complexType>
151. <xs:element name="ClippingInfo" nillable="true" type="tns3:ClippingInfo"/>
152. <xs:complexType name="Rectangle">
153. <xs:sequence>
154. <xs:element minOccurs="0" name="Bottom" type="xs:int"/>
155. <xs:element minOccurs="0" name="Left" type="xs:int"/>
156. <xs:element minOccurs="0" name="Right" type="xs:int"/>
157. <xs:element minOccurs="0" name="Top" type="xs:int"/>
158. </xs:sequence>
159. </xs:complexType>
160. <xs:element name="Rectangle" nillable="true" type="tns3:Rectangle"/>
161. <xs:complexType name="Point">
162. <xs:sequence>
163. <xs:element minOccurs="0" name="X" type="xs:int"/>
164. <xs:element minOccurs="0" name="Y" type="xs:int"/>
165. </xs:sequence>
166. </xs:complexType>
167. <xs:element name="Point" nillable="true" type="tns3:Point"/>
168. <xs:complexType name="ArrayOfMainMasterFe">
169. <xs:sequence>
170. <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterFe" nillable="true" type="tns3:MainMasterFe"/>
171. </xs:sequence>
172. </xs:complexType>
173. <xs:element name="ArrayOfMainMasterFe" nillable="true" type="tns3:ArrayOfMainMasterFe"/>
174. <xs:complexType name="MainMasterFe">
175. <xs:sequence>
176. <xs:element minOccurs="0" name="ContentMasters" nillable="true" type="tns3:ArrayOfContentMasterFe"/>
177. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
178. <xs:element minOccurs="0" name="InContent" type="xs:boolean"/>
179. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
180. <xs:element minOccurs="0" name="ThemeFamilyId" nillable="true" type="xs:string"/>
181. <xs:element minOccurs="0" name="VariantIndex" type="xs:int"/>
182. </xs:sequence>
183. </xs:complexType>
184. <xs:element name="MainMasterFe" nillable="true" type="tns3:MainMasterFe"/>
185. <xs:complexType name="ArrayOfContentMasterFe">
186. <xs:sequence>
187. <xs:element minOccurs="0" maxOccurs="unbounded" name="ContentMasterFe" nillable="true" type="tns3:ContentMasterFe"/>
188. </xs:sequence>
189. </xs:complexType>
190. <xs:element name="ArrayOfContentMasterFe" nillable="true" type="tns3:ArrayOfContentMasterFe"/>
191. <xs:complexType name="ContentMasterFe">
192. <xs:sequence>
193. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
194. <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
195. <xs:element minOccurs="0" name="SlideLayoutType" nillable="true" type="xs:string"/>
196. </xs:sequence>
197. </xs:complexType>
198. <xs:element name="ContentMasterFe" nillable="true" type="tns3:ContentMasterFe"/>
199. <xs:complexType name="EditSlide">
200. <xs:sequence>
201. <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3:ArrayOfComment"/>
202. <xs:element minOccurs="0" name="ContentMasterId" type="xs:unsignedInt"/>
203. <xs:element minOccurs="0" name="Created" type="xs:dateTime"/>
204. <xs:element minOccurs="0" name="EditAnims" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
205. <xs:element minOccurs="0" name="EditShapes" nillable="true" type="tns3:ArrayOfEditShape"/>
206. <xs:element minOccurs="0" name="EditTransition" nillable="true" type="tns3:EditTransitionInfo"/>
207. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
208. <xs:element minOccurs="0" name="ID" type="tns3:SlideID"/>
209. <xs:element minOccurs="0" name="IsTitleContentMaster" type="xs:boolean"/>
210. <xs:element minOccurs="0" name="MainMasterId" type="xs:unsignedInt"/>
211. <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
212. <xs:element minOccurs="0" name="SlideId" type="xs:unsignedInt"/>
213. <xs:element minOccurs="0" name="Theme" nillable="true" type="tns3:Theme"/>
214. <xs:element minOccurs="0" name="ThumbnailViewElement" nillable="true" type="tns3:ViewElement"/>
215. <xs:element minOccurs="0" name="ViewElems" nillable="true" type="tns3:ArrayOfViewElement"/>
216. </xs:sequence>
217. </xs:complexType>
218. <xs:element name="EditSlide" nillable="true" type="tns3:EditSlide"/>
219. <xs:complexType name="ArrayOfComment">
220. <xs:sequence>
221. <xs:element minOccurs="0" maxOccurs="unbounded" name="Comment" nillable="true" type="tns3:Comment"/>
222. </xs:sequence>
223. </xs:complexType>
224. <xs:element name="ArrayOfComment" nillable="true" type="tns3:ArrayOfComment"/>
225. <xs:complexType name="Comment">
226. <xs:sequence>
227. <xs:element minOccurs="0" name="Children" nillable="true" type="tns3:ArrayOfComment"/>
228. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
229. <xs:element minOccurs="0" name="authorName" nillable="true" type="xs:string"/>
230. <xs:element minOccurs="0" name="dt" type="xs:dateTime"/>
231. <xs:element minOccurs="0" name="idx" type="xs:unsignedInt"/>
232. <xs:element minOccurs="0" name="pos" nillable="true" type="tns3:Point"/>
233. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
234. </xs:sequence>
235. </xs:complexType>
236. <xs:element name="Comment" nillable="true" type="tns3:Comment"/>
237. <xs:complexType name="ArrayOfEditAnimInfo">
238. <xs:sequence>
239. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditAnimInfo" nillable="true" type="tns3:EditAnimInfo"/>
240. </xs:sequence>
241. </xs:complexType>
242. <xs:element name="ArrayOfEditAnimInfo" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
243. <xs:complexType name="EditAnimInfo">
244. <xs:sequence>
245. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="BuildIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
246. <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
247. <xs:element minOccurs="0" name="EffectId" type="xs:unsignedInt"/>
248. <xs:element minOccurs="0" name="HasExisting" type="xs:boolean"/>
249. <xs:element minOccurs="0" name="HasTrigger" type="xs:boolean"/>
250. <xs:element minOccurs="0" name="SequenceId" type="xs:unsignedInt"/>
251. <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
252. </xs:sequence>
253. </xs:complexType>
254. <xs:element name="EditAnimInfo" nillable="true" type="tns3:EditAnimInfo"/>
255. <xs:complexType name="ArrayOfEditShape">
256. <xs:sequence>
257. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditShape" nillable="true" type="tns3:EditShape"/>
258. </xs:sequence>
259. </xs:complexType>
260. <xs:element name="ArrayOfEditShape" nillable="true" type="tns3:ArrayOfEditShape"/>
261. <xs:complexType name="EditShape">
262. <xs:sequence>
263. <xs:element minOccurs="0" name="Alt" nillable="true" type="xs:string"/>
264. <xs:element minOccurs="0" name="EditBounds" nillable="true" type="tns3:Rectangle"/>
265. <xs:element minOccurs="0" name="EditHtml" nillable="true" type="xs:string"/>
266. <xs:element minOccurs="0" name="FFlippedHorizontally" type="xs:boolean"/>
267. <xs:element minOccurs="0" name="FFlippedVertically" type="xs:boolean"/>
268. <xs:element minOccurs="0" name="FontName" nillable="true" type="xs:string"/>
269. <xs:element minOccurs="0" name="FontSize" type="xs:unsignedInt"/>
270. <xs:element minOccurs="0" name="FontSizeMapping" nillable="true" type="tns3:FontSizeMapping"/>
271. <xs:element minOccurs="0" name="HasEffectAndNoFill" type="xs:boolean"/>
272. <xs:element minOccurs="0" name="IsActiveX" type="xs:boolean"/>
273. <xs:element minOccurs="0" name="IsBold" type="xs:boolean"/>
274. <xs:element minOccurs="0" name="IsChart" type="xs:boolean"/>
275. <xs:element minOccurs="0" name="IsConnected" type="xs:boolean"/>
276. <xs:element minOccurs="0" name="IsGroup" type="xs:boolean"/>
277. <xs:element minOccurs="0" name="IsInk" type="xs:boolean"/>
278. <xs:element minOccurs="0" name="IsItalic" type="xs:boolean"/>
279. <xs:element minOccurs="0" name="IsLine" type="xs:boolean"/>
280. <xs:element minOccurs="0" name="IsNonNativeVideo" type="xs:boolean"/>
281. <xs:element minOccurs="0" name="IsOleObject" type="xs:boolean"/>
282. <xs:element minOccurs="0" name="IsPicture" type="xs:boolean"/>
283. <xs:element minOccurs="0" name="IsPlaceholder" type="xs:boolean"/>
284. <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
285. <xs:element minOccurs="0" name="IsSmartArt" type="xs:boolean"/>
286. <xs:element minOccurs="0" name="IsStraightLine" type="xs:boolean"/>
287. <xs:element minOccurs="0" name="IsTable" type="xs:boolean"/>
288. <xs:element minOccurs="0" name="IsTextbox" type="xs:boolean"/>
289. <xs:element minOccurs="0" name="IsUnderline" type="xs:boolean"/>
290. <xs:element minOccurs="0" name="PlaceholderType" type="xs:unsignedInt"/>
291. <xs:element minOccurs="0" name="RotatedBoundingRegion" nillable="true" type="tns3:BoundingRegion"/>
292. <xs:element minOccurs="0" name="Rotation" type="xs:int"/>
293. <xs:element minOccurs="0" name="ShapeId" type="xs:unsignedInt"/>
294. <xs:element minOccurs="0" name="ShapeViewElemId" type="xs:unsignedInt"/>
295. <xs:element minOccurs="0" name="SmartArtInfo" nillable="true" type="tns3:SmartArtInfo"/>
296. <xs:element minOccurs="0" name="TextAlignmentType" type="xs:unsignedInt"/>
297. <xs:element minOccurs="0" name="TextBulletType" type="xs:unsignedInt"/>
298. <xs:element minOccurs="0" name="TextDirectionType" type="xs:unsignedInt"/>
299. <xs:element minOccurs="0" name="TextViewElemId" type="xs:unsignedInt"/>
300. <xs:element minOccurs="0" name="X" type="xs:double"/>
301. <xs:element minOccurs="0" name="Y" type="xs:double"/>
302. <xs:element minOccurs="0" name="Z" type="xs:unsignedInt"/>
303. </xs:sequence>
304. </xs:complexType>
305. <xs:element name="EditShape" nillable="true" type="tns3:EditShape"/>
306. <xs:complexType name="FontSizeMapping">
307. <xs:sequence>
308. <xs:element minOccurs="0" name="Size1" type="xs:unsignedInt"/>
309. <xs:element minOccurs="0" name="Size2" type="xs:unsignedInt"/>
310. <xs:element minOccurs="0" name="Size3" type="xs:unsignedInt"/>
311. <xs:element minOccurs="0" name="Size4" type="xs:unsignedInt"/>
312. <xs:element minOccurs="0" name="Size5" type="xs:unsignedInt"/>
313. <xs:element minOccurs="0" name="Size6" type="xs:unsignedInt"/>
314. <xs:element minOccurs="0" name="Size7" type="xs:unsignedInt"/>
315. </xs:sequence>
316. </xs:complexType>
317. <xs:element name="FontSizeMapping" nillable="true" type="tns3:FontSizeMapping"/>
318. <xs:complexType name="BoundingRegion">
319. <xs:sequence>
320. <xs:element minOccurs="0" name="BottomLeft" nillable="true" type="tns3:Point"/>
321. <xs:element minOccurs="0" name="BottomRight" nillable="true" type="tns3:Point"/>
322. <xs:element minOccurs="0" name="TopLeft" nillable="true" type="tns3:Point"/>
323. <xs:element minOccurs="0" name="TopRight" nillable="true" type="tns3:Point"/>
324. </xs:sequence>
325. </xs:complexType>
326. <xs:element name="BoundingRegion" nillable="true" type="tns3:BoundingRegion"/>
327. <xs:complexType name="SmartArtInfo">
328. <xs:sequence>
329. <xs:element minOccurs="0" name="fReverseChecked" type="xs:boolean"/>
330. <xs:element minOccurs="0" name="fReverseEnabled" type="xs:boolean"/>
331. </xs:sequence>
332. </xs:complexType>
333. <xs:element name="SmartArtInfo" nillable="true" type="tns3:SmartArtInfo"/>
334. <xs:complexType name="EditTransitionInfo">
335. <xs:sequence>
336. <xs:element minOccurs="0" name="Direction" type="xs:unsignedInt"/>
337. <xs:element minOccurs="0" name="Duration" type="xs:unsignedInt"/>
338. <xs:element minOccurs="0" name="IsManualAdvance" type="xs:boolean"/>
339. <xs:element minOccurs="0" name="TransitionType" type="xs:unsignedInt"/>
340. </xs:sequence>
341. </xs:complexType>
342. <xs:element name="EditTransitionInfo" nillable="true" type="tns3:EditTransitionInfo"/>
343. <xs:complexType name="Notes">
344. <xs:sequence>
345. <xs:element minOccurs="0" name="Html" nillable="true" type="tns3:Html"/>
346. <xs:element minOccurs="0" name="IsPrompt" type="xs:boolean"/>
347. </xs:sequence>
348. </xs:complexType>
349. <xs:element name="Notes" nillable="true" type="tns3:Notes"/>
350. <xs:complexType name="Html">
351. <xs:sequence>
352. <xs:element minOccurs="0" name="Text" nillable="true" type="xs:string"/>
353. </xs:sequence>
354. </xs:complexType>
355. <xs:element name="Html" nillable="true" type="tns3:Html"/>
356. <xs:complexType name="Theme">
357. <xs:sequence>
358. <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
359. <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
360. <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
361. <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
362. <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
363. <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
364. <xs:element minOccurs="0" name="Dark1" nillable="true" type="tns3:ThemeColor"/>
365. <xs:element minOccurs="0" name="Dark2" nillable="true" type="tns3:ThemeColor"/>
366. <xs:element minOccurs="0" name="Light1" nillable="true" type="tns3:ThemeColor"/>
367. <xs:element minOccurs="0" name="Light2" nillable="true" type="tns3:ThemeColor"/>
368. <xs:element minOccurs="0" name="PresetSchemeColorMapping" nillable="true" type="tns3:PresetSchemeColorMapping"/>
369. </xs:sequence>
370. </xs:complexType>
371. <xs:element name="Theme" nillable="true" type="tns3:Theme"/>
372. <xs:complexType name="ThemeColor">
373. <xs:sequence>
374. <xs:element minOccurs="0" name="b" type="xs:unsignedByte"/>
375. <xs:element minOccurs="0" name="g" type="xs:unsignedByte"/>
376. <xs:element minOccurs="0" name="r" type="xs:unsignedByte"/>
377. </xs:sequence>
378. </xs:complexType>
379. <xs:element name="ThemeColor" nillable="true" type="tns3:ThemeColor"/>
380. <xs:complexType name="PresetSchemeColorMapping">
381. <xs:sequence>
382. <xs:element minOccurs="0" name="Accent1" nillable="true" type="tns3:ThemeColor"/>
383. <xs:element minOccurs="0" name="Accent2" nillable="true" type="tns3:ThemeColor"/>
384. <xs:element minOccurs="0" name="Accent3" nillable="true" type="tns3:ThemeColor"/>
385. <xs:element minOccurs="0" name="Accent4" nillable="true" type="tns3:ThemeColor"/>
386. <xs:element minOccurs="0" name="Accent5" nillable="true" type="tns3:ThemeColor"/>
387. <xs:element minOccurs="0" name="Accent6" nillable="true" type="tns3:ThemeColor"/>
388. <xs:element minOccurs="0" name="Background1" nillable="true" type="tns3:ThemeColor"/>
389. <xs:element minOccurs="0" name="Background2" nillable="true" type="tns3:ThemeColor"/>
390. <xs:element minOccurs="0" name="Text1" nillable="true" type="tns3:ThemeColor"/>
391. <xs:element minOccurs="0" name="Text2" nillable="true" type="tns3:ThemeColor"/>
392. </xs:sequence>
393. </xs:complexType>
394. <xs:element name="PresetSchemeColorMapping" nillable="true" type="tns3:PresetSchemeColorMapping"/>
395. <xs:complexType name="ArrayOfViewElement">
396. <xs:sequence>
397. <xs:element minOccurs="0" maxOccurs="unbounded" name="ViewElement" nillable="true" type="tns3:ViewElement"/>
398. </xs:sequence>
399. </xs:complexType>
400. <xs:element name="ArrayOfViewElement" nillable="true" type="tns3:ArrayOfViewElement"/>
401. <xs:complexType name="SlideIdList">
402. <xs:sequence>
403. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="SlideIds" nillable="true" type="q3:ArrayOfunsignedInt"/>
404. </xs:sequence>
405. </xs:complexType>
406. <xs:element name="SlideIdList" nillable="true" type="tns3:SlideIdList"/>
407. <xs:complexType name="EditPresentationResources">
408. <xs:sequence>
409. <xs:element minOccurs="0" name="MainMasterResources" nillable="true" type="tns3:ArrayOfMainMasterResourcesFe"/>
410. </xs:sequence>
411. </xs:complexType>
412. <xs:element name="EditPresentationResources" nillable="true" type="tns3:EditPresentationResources"/>
413. <xs:complexType name="ArrayOfMainMasterResourcesFe">
414. <xs:sequence>
415. <xs:element minOccurs="0" maxOccurs="unbounded" name="MainMasterResourcesFe" nillable="true" type="tns3:MainMasterResourcesFe"/>
416. </xs:sequence>
417. </xs:complexType>
418. <xs:element name="ArrayOfMainMasterResourcesFe" nillable="true" type="tns3:ArrayOfMainMasterResourcesFe"/>
419. <xs:complexType name="MainMasterResourcesFe">
420. <xs:sequence>
421. <xs:element minOccurs="0" name="LineStyles" nillable="true" type="tns3:ArrayOfStyleGalleryItem"/>
422. <xs:element minOccurs="0" name="MasterId" type="xs:unsignedInt"/>
423. <xs:element minOccurs="0" name="ShapeStyles" nillable="true" type="tns3:ArrayOfStyleGalleryItem"/>
424. </xs:sequence>
425. </xs:complexType>
426. <xs:element name="MainMasterResourcesFe" nillable="true" type="tns3:MainMasterResourcesFe"/>
427. <xs:complexType name="ArrayOfStyleGalleryItem">
428. <xs:sequence>
429. <xs:element minOccurs="0" maxOccurs="unbounded" name="StyleGalleryItem" nillable="true" type="tns3:StyleGalleryItem"/>
430. </xs:sequence>
431. </xs:complexType>
432. <xs:element name="ArrayOfStyleGalleryItem" nillable="true" type="tns3:ArrayOfStyleGalleryItem"/>
433. <xs:complexType name="StyleGalleryItem">
434. <xs:sequence>
435. <xs:element minOccurs="0" name="Icon" nillable="true" type="tns3:ViewElement"/>
436. <xs:element minOccurs="0" name="StyleId" type="xs:unsignedInt"/>
437. </xs:sequence>
438. </xs:complexType>
439. <xs:element name="StyleGalleryItem" nillable="true" type="tns3:StyleGalleryItem"/>
440. <xs:complexType name="EditCommandResponse">
441. <xs:sequence>
442. <xs:element minOccurs="0" name="PresChanges" nillable="true" type="tns3:EditPresentationChanges"/>
443. </xs:sequence>
444. </xs:complexType>
445. <xs:element name="EditCommandResponse" nillable="true" type="tns3:EditCommandResponse"/>
446. <xs:complexType name="EditPresentationChanges">
447. <xs:sequence>
448. <xs:element minOccurs="0" name="AddedSlideInfos" nillable="true" type="tns3:ArrayOfEditSlideInfoFe"/>
449. <xs:element minOccurs="0" name="AddedSlides" nillable="true" type="tns3:ArrayOfEditSlide"/>
450. <xs:element minOccurs="0" name="InvalidateAllThumbs" type="xs:boolean"/>
451. <xs:element minOccurs="0" name="MainMasterIds" nillable="true" type="tns3:SlideIdList"/>
452. <xs:element minOccurs="0" name="ModifiedSlides" nillable="true" type="tns3:ArrayOfEditSlideChanges"/>
453. <xs:element minOccurs="0" name="Redo" type="xs:boolean"/>
454. <xs:element minOccurs="0" name="SlideOrder" nillable="true" type="tns3:SlideIdList"/>
455. <xs:element minOccurs="0" name="Undo" type="xs:boolean"/>
456. </xs:sequence>
457. </xs:complexType>
458. <xs:element name="EditPresentationChanges" nillable="true" type="tns3:EditPresentationChanges"/>
459. <xs:complexType name="ArrayOfEditSlide">
460. <xs:sequence>
461. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlide" nillable="true" type="tns3:EditSlide"/>
462. </xs:sequence>
463. </xs:complexType>
464. <xs:element name="ArrayOfEditSlide" nillable="true" type="tns3:ArrayOfEditSlide"/>
465. <xs:complexType name="ArrayOfEditSlideChanges">
466. <xs:sequence>
467. <xs:element minOccurs="0" maxOccurs="unbounded" name="EditSlideChanges" nillable="true" type="tns3:EditSlideChanges"/>
468. </xs:sequence>
469. </xs:complexType>
470. <xs:element name="ArrayOfEditSlideChanges" nillable="true" type="tns3:ArrayOfEditSlideChanges"/>
471. <xs:complexType name="EditSlideChanges">
472. <xs:sequence>
473. <xs:element minOccurs="0" name="Comments" nillable="true" type="tns3:ArrayOfComment"/>
474. <xs:element xmlns:q3="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DelElems" nillable="true" type="q3:ArrayOfunsignedInt"/>
475. <xs:element minOccurs="0" name="EditAnims" nillable="true" type="tns3:ArrayOfEditAnimInfo"/>
476. <xs:element minOccurs="0" name="EditTransition" nillable="true" type="tns3:EditTransitionInfo"/>
477. <xs:element minOccurs="0" name="Elems" nillable="true" type="tns3:ArrayOfViewElement"/>
478. <xs:element minOccurs="0" name="HasAnimationOrTransition" type="xs:boolean"/>
479. <xs:element minOccurs="0" name="Hidden" type="xs:boolean"/>
480. <xs:element minOccurs="0" name="Id" type="xs:unsignedInt"/>
481. <xs:element minOccurs="0" name="ModifiedShapes" nillable="true" type="tns3:ArrayOfEditShape"/>
482. <xs:element minOccurs="0" name="Notes" nillable="true" type="tns3:Notes"/>
483. <xs:element minOccurs="0" name="Refresh" type="xs:boolean"/>
484. <xs:element minOccurs="0" name="Thumb" nillable="true" type="tns3:ViewElement"/>
485. <xs:element minOccurs="0" name="Title" nillable="true" type="xs:string"/>
486. </xs:sequence>
487. </xs:complexType>
488. <xs:element name="EditSlideChanges" nillable="true" type="tns3:EditSlideChanges"/>
489. <xs:complexType name="PptViewingService.PrintResult">
490. <xs:sequence>
491. <xs:element minOccurs="0" name="PrintUrl" nillable="true" type="xs:string"/>
492. </xs:sequence>
493. </xs:complexType>
494. <xs:element name="PptViewingService.PrintResult" nillable="true" type="tns3:PptViewingService.PrintResult"/>
495. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <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">
3. <xs:complexType name="ArrayOfunsignedInt">
4. <xs:sequence>
5. <xs:element minOccurs="0" maxOccurs="unbounded" name="unsignedInt" type="xs:unsignedInt"/>
6. </xs:sequence>
7. </xs:complexType>
8. <xs:element name="ArrayOfunsignedInt" nillable="true" type="q3:ArrayOfunsignedInt"/>
9. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns4="http://schemas.microsoft.com/2003/10/Serialization/" attributeFormDefault="qualified" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:element name="anyType" nillable="true" type="xs:anyType"/>
4. <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
5. <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
6. <xs:element name="boolean" nillable="true" type="xs:boolean"/>
7. <xs:element name="byte" nillable="true" type="xs:byte"/>
8. <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
9. <xs:element name="decimal" nillable="true" type="xs:decimal"/>
10. <xs:element name="double" nillable="true" type="xs:double"/>
11. <xs:element name="float" nillable="true" type="xs:float"/>
12. <xs:element name="int" nillable="true" type="xs:int"/>
13. <xs:element name="long" nillable="true" type="xs:long"/>
14. <xs:element name="QName" nillable="true" type="xs:QName"/>
15. <xs:element name="short" nillable="true" type="xs:short"/>
16. <xs:element name="string" nillable="true" type="xs:string"/>
17. <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
18. <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
19. <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
20. <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
21. <xs:element name="char" nillable="true" type="tns4:char"/>
22. <xs:simpleType name="char">
23. <xs:restriction base="xs:int"/>
24. </xs:simpleType>
25. <xs:element name="duration" nillable="true" type="tns4:duration"/>
26. <xs:simpleType name="duration">
27. <xs:restriction base="xs:duration">
28. <xs:pattern value="\-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?"/>
29. <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
30. <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
31. </xs:restriction>
32. </xs:simpleType>
33. <xs:element name="guid" nillable="true" type="tns4:guid"/>
34. <xs:simpleType name="guid">
35. <xs:restriction base="xs:string">
36. <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
37. </xs:restriction>
38. </xs:simpleType>
39. <xs:attribute name="FactoryType" type="xs:QName"/>
40. <xs:attribute name="Id" type="xs:ID"/>
41. <xs:attribute name="Ref" type="xs:IDREF"/>
42. </xs:schema>

## http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/p"/>
4. <xs:element name="LogULS">
5. <xs:complexType>
6. <xs:sequence>
7. <xs:element minOccurs="0" name="tagID" type="xs:unsignedInt"/>
8. <xs:element minOccurs="0" name="level" type="xs:unsignedInt"/>
9. <xs:element minOccurs="0" name="message" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>
13. <xs:element name="LogULSResponse">
14. <xs:complexType>
15. <xs:sequence>
16. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="LogULSResult" nillable="true" type="tns3:ServiceResult"/>
17. </xs:sequence>
18. </xs:complexType>
19. </xs:element>
20. <xs:element name="GetPresentationId">
21. <xs:complexType>
22. <xs:sequence>
23. <xs:element minOccurs="0" name="rawDocId" nillable="true" type="xs:string"/>
24. <xs:element minOccurs="0" name="backendUriOverride" nillable="true" type="xs:string"/>
25. </xs:sequence>
26. </xs:complexType>
27. </xs:element>
28. <xs:element name="GetPresentationIdResponse">
29. <xs:complexType>
30. <xs:sequence>
31. <xs:element minOccurs="0" name="GetPresentationIdResult" nillable="true" type="xs:string"/>
32. </xs:sequence>
33. </xs:complexType>
34. </xs:element>
35. <xs:element name="GetCoauthUpdates">
36. <xs:complexType>
37. <xs:sequence>
38. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
39. <xs:element minOccurs="0" name="lastToken" nillable="true" type="xs:string"/>
40. </xs:sequence>
41. </xs:complexType>
42. </xs:element>
43. <xs:element name="GetCoauthUpdatesResponse">
44. <xs:complexType>
45. <xs:sequence>
46. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetCoauthUpdatesResult" nillable="true" type="tns3:ServiceResult"/>
47. </xs:sequence>
48. </xs:complexType>
49. </xs:element>
50. <xs:element name="GetEditPresInfo">
51. <xs:complexType>
52. <xs:sequence>
53. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
54. <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
55. <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
56. <xs:element minOccurs="0" name="includedEditSlideIndex" type="xs:int"/>
57. <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
58. <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
59. </xs:sequence>
60. </xs:complexType>
61. </xs:element>
62. <xs:element name="GetEditPresInfoResponse">
63. <xs:complexType>
64. <xs:sequence>
65. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresInfoResult" nillable="true" type="tns3:ServiceResult"/>
66. </xs:sequence>
67. </xs:complexType>
68. </xs:element>
69. <xs:element name="GetEditPresInfoGetEditSlideById">
70. <xs:complexType>
71. <xs:sequence>
72. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
73. <xs:element minOccurs="0" name="firstSlideIndex" type="xs:unsignedInt"/>
74. <xs:element minOccurs="0" name="numSlides" type="xs:unsignedInt"/>
75. <xs:element minOccurs="0" name="includedEditSlideId" nillable="true" type="xs:string"/>
76. <xs:element minOccurs="0" name="clientWidth" type="xs:unsignedInt"/>
77. <xs:element minOccurs="0" name="clientHeight" type="xs:unsignedInt"/>
78. </xs:sequence>
79. </xs:complexType>
80. </xs:element>
81. <xs:element name="GetEditPresInfoGetEditSlideByIdResponse">
82. <xs:complexType>
83. <xs:sequence>
84. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresInfoGetEditSlideByIdResult" nillable="true" type="tns3:ServiceResult"/>
85. </xs:sequence>
86. </xs:complexType>
87. </xs:element>
88. <xs:element name="GetEditPresResources">
89. <xs:complexType>
90. <xs:sequence>
91. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
92. </xs:sequence>
93. </xs:complexType>
94. </xs:element>
95. <xs:element name="GetEditPresResourcesResponse">
96. <xs:complexType>
97. <xs:sequence>
98. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditPresResourcesResult" nillable="true" type="tns3:ServiceResult"/>
99. </xs:sequence>
100. </xs:complexType>
101. </xs:element>
102. <xs:element name="GetEditSlide">
103. <xs:complexType>
104. <xs:sequence>
105. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
106. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
107. </xs:sequence>
108. </xs:complexType>
109. </xs:element>
110. <xs:element name="GetEditSlideResponse">
111. <xs:complexType>
112. <xs:sequence>
113. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="GetEditSlideResult" nillable="true" type="tns3:ServiceResult"/>
114. </xs:sequence>
115. </xs:complexType>
116. </xs:element>
117. <xs:element name="MoveSlide">
118. <xs:complexType>
119. <xs:sequence>
120. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
121. <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
122. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
123. </xs:sequence>
124. </xs:complexType>
125. </xs:element>
126. <xs:element name="MoveSlideResponse">
127. <xs:complexType>
128. <xs:sequence>
129. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveSlideResult" nillable="true" type="tns3:ServiceResult"/>
130. </xs:sequence>
131. </xs:complexType>
132. </xs:element>
133. <xs:element name="InsertSlide">
134. <xs:complexType>
135. <xs:sequence>
136. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
137. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
138. <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
139. <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
140. </xs:sequence>
141. </xs:complexType>
142. </xs:element>
143. <xs:element name="InsertSlideResponse">
144. <xs:complexType>
145. <xs:sequence>
146. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertSlideResult" nillable="true" type="tns3:ServiceResult"/>
147. </xs:sequence>
148. </xs:complexType>
149. </xs:element>
150. <xs:element name="ReplaceText">
151. <xs:complexType>
152. <xs:sequence>
153. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
154. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
155. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
156. <xs:element minOccurs="0" name="newText" nillable="true" type="xs:string"/>
157. <xs:element minOccurs="0" name="partialEdit" type="xs:boolean"/>
158. </xs:sequence>
159. </xs:complexType>
160. </xs:element>
161. <xs:element name="ReplaceTextResponse">
162. <xs:complexType>
163. <xs:sequence>
164. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReplaceTextResult" nillable="true" type="tns3:ServiceResult"/>
165. </xs:sequence>
166. </xs:complexType>
167. </xs:element>
168. <xs:element name="SetAnimation">
169. <xs:complexType>
170. <xs:sequence>
171. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
172. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
173. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
174. <xs:element minOccurs="0" name="fxId" type="xs:unsignedInt"/>
175. <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
176. <xs:element minOccurs="0" name="sequenceId" type="xs:unsignedInt"/>
177. </xs:sequence>
178. </xs:complexType>
179. </xs:element>
180. <xs:element name="SetAnimationResponse">
181. <xs:complexType>
182. <xs:sequence>
183. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetAnimationResult" nillable="true" type="tns3:ServiceResult"/>
184. </xs:sequence>
185. </xs:complexType>
186. </xs:element>
187. <xs:element name="SetTransition">
188. <xs:complexType>
189. <xs:sequence>
190. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
191. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
192. <xs:element minOccurs="0" name="type" type="xs:unsignedInt"/>
193. <xs:element minOccurs="0" name="direction" type="xs:unsignedInt"/>
194. <xs:element minOccurs="0" name="duration" type="xs:unsignedInt"/>
195. <xs:element minOccurs="0" name="isManualAdvance" type="xs:boolean"/>
196. </xs:sequence>
197. </xs:complexType>
198. </xs:element>
199. <xs:element name="SetTransitionResponse">
200. <xs:complexType>
201. <xs:sequence>
202. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetTransitionResult" nillable="true" type="tns3:ServiceResult"/>
203. </xs:sequence>
204. </xs:complexType>
205. </xs:element>
206. <xs:element name="SetTransitionApplyAll">
207. <xs:complexType>
208. <xs:sequence>
209. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
210. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
211. </xs:sequence>
212. </xs:complexType>
213. </xs:element>
214. <xs:element name="SetTransitionApplyAllResponse">
215. <xs:complexType>
216. <xs:sequence>
217. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetTransitionApplyAllResult" nillable="true" type="tns3:ServiceResult"/>
218. </xs:sequence>
219. </xs:complexType>
220. </xs:element>
221. <xs:element name="ReorderAnimation">
222. <xs:complexType>
223. <xs:sequence>
224. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
225. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
226. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
227. <xs:element minOccurs="0" name="fLater" type="xs:boolean"/>
228. </xs:sequence>
229. </xs:complexType>
230. </xs:element>
231. <xs:element name="ReorderAnimationResponse">
232. <xs:complexType>
233. <xs:sequence>
234. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReorderAnimationResult" nillable="true" type="tns3:ServiceResult"/>
235. </xs:sequence>
236. </xs:complexType>
237. </xs:element>
238. <xs:element name="ClearPlaceholder">
239. <xs:complexType>
240. <xs:sequence>
241. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
242. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
243. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
244. </xs:sequence>
245. </xs:complexType>
246. </xs:element>
247. <xs:element name="ClearPlaceholderResponse">
248. <xs:complexType>
249. <xs:sequence>
250. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ClearPlaceholderResult" nillable="true" type="tns3:ServiceResult"/>
251. </xs:sequence>
252. </xs:complexType>
253. </xs:element>
254. <xs:element name="DeleteSlide">
255. <xs:complexType>
256. <xs:sequence>
257. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
258. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
259. </xs:sequence>
260. </xs:complexType>
261. </xs:element>
262. <xs:element name="DeleteSlideResponse">
263. <xs:complexType>
264. <xs:sequence>
265. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DeleteSlideResult" nillable="true" type="tns3:ServiceResult"/>
266. </xs:sequence>
267. </xs:complexType>
268. </xs:element>
269. <xs:element name="DuplicateSlide">
270. <xs:complexType>
271. <xs:sequence>
272. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
273. <xs:element minOccurs="0" name="srcId" nillable="true" type="xs:string"/>
274. <xs:element minOccurs="0" name="dstId" nillable="true" type="xs:string"/>
275. </xs:sequence>
276. </xs:complexType>
277. </xs:element>
278. <xs:element name="DuplicateSlideResponse">
279. <xs:complexType>
280. <xs:sequence>
281. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DuplicateSlideResult" nillable="true" type="tns3:ServiceResult"/>
282. </xs:sequence>
283. </xs:complexType>
284. </xs:element>
285. <xs:element name="ShowHideSlide">
286. <xs:complexType>
287. <xs:sequence>
288. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
289. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
290. <xs:element minOccurs="0" name="fHidden" type="xs:boolean"/>
291. </xs:sequence>
292. </xs:complexType>
293. </xs:element>
294. <xs:element name="ShowHideSlideResponse">
295. <xs:complexType>
296. <xs:sequence>
297. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ShowHideSlideResult" nillable="true" type="tns3:ServiceResult"/>
298. </xs:sequence>
299. </xs:complexType>
300. </xs:element>
301. <xs:element name="ReplaceNotes">
302. <xs:complexType>
303. <xs:sequence>
304. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
305. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
306. <xs:element minOccurs="0" name="newNotes" nillable="true" type="xs:string"/>
307. </xs:sequence>
308. </xs:complexType>
309. </xs:element>
310. <xs:element name="ReplaceNotesResponse">
311. <xs:complexType>
312. <xs:sequence>
313. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReplaceNotesResult" nillable="true" type="tns3:ServiceResult"/>
314. </xs:sequence>
315. </xs:complexType>
316. </xs:element>
317. <xs:element name="Undo">
318. <xs:complexType>
319. <xs:sequence>
320. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
321. </xs:sequence>
322. </xs:complexType>
323. </xs:element>
324. <xs:element name="UndoResponse">
325. <xs:complexType>
326. <xs:sequence>
327. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UndoResult" nillable="true" type="tns3:ServiceResult"/>
328. </xs:sequence>
329. </xs:complexType>
330. </xs:element>
331. <xs:element name="Redo">
332. <xs:complexType>
333. <xs:sequence>
334. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
335. </xs:sequence>
336. </xs:complexType>
337. </xs:element>
338. <xs:element name="RedoResponse">
339. <xs:complexType>
340. <xs:sequence>
341. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RedoResult" nillable="true" type="tns3:ServiceResult"/>
342. </xs:sequence>
343. </xs:complexType>
344. </xs:element>
345. <xs:element name="ChangePictureStyle">
346. <xs:complexType>
347. <xs:sequence>
348. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
349. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
350. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
351. <xs:element minOccurs="0" name="pictureStyleId" type="xs:unsignedInt"/>
352. </xs:sequence>
353. </xs:complexType>
354. </xs:element>
355. <xs:element name="ChangePictureStyleResponse">
356. <xs:complexType>
357. <xs:sequence>
358. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangePictureStyleResult" nillable="true" type="tns3:ServiceResult"/>
359. </xs:sequence>
360. </xs:complexType>
361. </xs:element>
362. <xs:element name="ResetPicture">
363. <xs:complexType>
364. <xs:sequence>
365. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
366. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
367. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
368. </xs:sequence>
369. </xs:complexType>
370. </xs:element>
371. <xs:element name="ResetPictureResponse">
372. <xs:complexType>
373. <xs:sequence>
374. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResetPictureResult" nillable="true" type="tns3:ServiceResult"/>
375. </xs:sequence>
376. </xs:complexType>
377. </xs:element>
378. <xs:element name="MoveShape">
379. <xs:complexType>
380. <xs:sequence>
381. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
382. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
383. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
384. <xs:element minOccurs="0" name="x" type="xs:double"/>
385. <xs:element minOccurs="0" name="y" type="xs:double"/>
386. </xs:sequence>
387. </xs:complexType>
388. </xs:element>
389. <xs:element name="MoveShapeResponse">
390. <xs:complexType>
391. <xs:sequence>
392. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveShapeResult" nillable="true" type="tns3:ServiceResult"/>
393. </xs:sequence>
394. </xs:complexType>
395. </xs:element>
396. <xs:element name="ResizeShape">
397. <xs:complexType>
398. <xs:sequence>
399. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
400. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
401. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
402. <xs:element minOccurs="0" name="deltaNorth" type="xs:double"/>
403. <xs:element minOccurs="0" name="deltaSouth" type="xs:double"/>
404. <xs:element minOccurs="0" name="deltaWest" type="xs:double"/>
405. <xs:element minOccurs="0" name="deltaEast" type="xs:double"/>
406. </xs:sequence>
407. </xs:complexType>
408. </xs:element>
409. <xs:element name="ResizeShapeResponse">
410. <xs:complexType>
411. <xs:sequence>
412. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResizeShapeResult" nillable="true" type="tns3:ServiceResult"/>
413. </xs:sequence>
414. </xs:complexType>
415. </xs:element>
416. <xs:element name="RotateShape">
417. <xs:complexType>
418. <xs:sequence>
419. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
420. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
421. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
422. <xs:element minOccurs="0" name="degrees" type="xs:int"/>
423. </xs:sequence>
424. </xs:complexType>
425. </xs:element>
426. <xs:element name="RotateShapeResponse">
427. <xs:complexType>
428. <xs:sequence>
429. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RotateShapeResult" nillable="true" type="tns3:ServiceResult"/>
430. </xs:sequence>
431. </xs:complexType>
432. </xs:element>
433. <xs:element name="FlipShape">
434. <xs:complexType>
435. <xs:sequence>
436. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
437. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
438. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
439. <xs:element minOccurs="0" name="fHorizontal" type="xs:boolean"/>
440. <xs:element minOccurs="0" name="fVertical" type="xs:boolean"/>
441. </xs:sequence>
442. </xs:complexType>
443. </xs:element>
444. <xs:element name="FlipShapeResponse">
445. <xs:complexType>
446. <xs:sequence>
447. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="FlipShapeResult" nillable="true" type="tns3:ServiceResult"/>
448. </xs:sequence>
449. </xs:complexType>
450. </xs:element>
451. <xs:element name="InsertShape">
452. <xs:complexType>
453. <xs:sequence>
454. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
455. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
456. <xs:element minOccurs="0" name="shapeType" type="xs:int"/>
457. <xs:element minOccurs="0" name="shapeCtrPosX" type="xs:int"/>
458. <xs:element minOccurs="0" name="shapeCtrPosY" type="xs:int"/>
459. <xs:element minOccurs="0" name="shapeWidth" type="xs:double"/>
460. <xs:element minOccurs="0" name="shapeHeight" type="xs:double"/>
461. </xs:sequence>
462. </xs:complexType>
463. </xs:element>
464. <xs:element name="InsertShapeResponse">
465. <xs:complexType>
466. <xs:sequence>
467. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertShapeResult" nillable="true" type="tns3:ServiceResult"/>
468. </xs:sequence>
469. </xs:complexType>
470. </xs:element>
471. <xs:element name="DuplicateShape">
472. <xs:complexType>
473. <xs:sequence>
474. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
475. <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
476. <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
477. <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
478. <xs:element minOccurs="0" name="cloneShapePosX" type="xs:int"/>
479. <xs:element minOccurs="0" name="cloneShapePosY" type="xs:int"/>
480. </xs:sequence>
481. </xs:complexType>
482. </xs:element>
483. <xs:element name="DuplicateShapeResponse">
484. <xs:complexType>
485. <xs:sequence>
486. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DuplicateShapeResult" nillable="true" type="tns3:ServiceResult"/>
487. </xs:sequence>
488. </xs:complexType>
489. </xs:element>
490. <xs:element name="ArrangeShape">
491. <xs:complexType>
492. <xs:sequence>
493. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
494. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
495. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
496. <xs:element minOccurs="0" name="orderMode" type="xs:unsignedInt"/>
497. </xs:sequence>
498. </xs:complexType>
499. </xs:element>
500. <xs:element name="ArrangeShapeResponse">
501. <xs:complexType>
502. <xs:sequence>
503. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ArrangeShapeResult" nillable="true" type="tns3:ServiceResult"/>
504. </xs:sequence>
505. </xs:complexType>
506. </xs:element>
507. <xs:element name="UngroupShape">
508. <xs:complexType>
509. <xs:sequence>
510. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
511. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
512. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
513. </xs:sequence>
514. </xs:complexType>
515. </xs:element>
516. <xs:element name="UngroupShapeResponse">
517. <xs:complexType>
518. <xs:sequence>
519. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UngroupShapeResult" nillable="true" type="tns3:ServiceResult"/>
520. </xs:sequence>
521. </xs:complexType>
522. </xs:element>
523. <xs:element name="ApplyShapeStyle">
524. <xs:complexType>
525. <xs:sequence>
526. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
527. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
528. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
529. <xs:element minOccurs="0" name="styleId" type="xs:unsignedInt"/>
530. </xs:sequence>
531. </xs:complexType>
532. </xs:element>
533. <xs:element name="ApplyShapeStyleResponse">
534. <xs:complexType>
535. <xs:sequence>
536. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeStyleResult" nillable="true" type="tns3:ServiceResult"/>
537. </xs:sequence>
538. </xs:complexType>
539. </xs:element>
540. <xs:element name="ApplyShapeFill">
541. <xs:complexType>
542. <xs:sequence>
543. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
544. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
545. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
546. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
547. <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
548. <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
549. <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
550. </xs:sequence>
551. </xs:complexType>
552. </xs:element>
553. <xs:element name="ApplyShapeFillResponse">
554. <xs:complexType>
555. <xs:sequence>
556. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
557. </xs:sequence>
558. </xs:complexType>
559. </xs:element>
560. <xs:element name="RemoveShapeFill">
561. <xs:complexType>
562. <xs:sequence>
563. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
564. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
565. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
566. </xs:sequence>
567. </xs:complexType>
568. </xs:element>
569. <xs:element name="RemoveShapeFillResponse">
570. <xs:complexType>
571. <xs:sequence>
572. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RemoveShapeFillResult" nillable="true" type="tns3:ServiceResult"/>
573. </xs:sequence>
574. </xs:complexType>
575. </xs:element>
576. <xs:element name="ApplyShapeOutlineColor">
577. <xs:complexType>
578. <xs:sequence>
579. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
580. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
581. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
582. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
583. <xs:element minOccurs="0" name="themeColor" type="xs:int"/>
584. <xs:element minOccurs="0" name="colorLuminance" type="xs:unsignedInt"/>
585. <xs:element minOccurs="0" name="fTintColor" type="xs:boolean"/>
586. </xs:sequence>
587. </xs:complexType>
588. </xs:element>
589. <xs:element name="ApplyShapeOutlineColorResponse">
590. <xs:complexType>
591. <xs:sequence>
592. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineColorResult" nillable="true" type="tns3:ServiceResult"/>
593. </xs:sequence>
594. </xs:complexType>
595. </xs:element>
596. <xs:element name="ApplyShapeOutlineWidth">
597. <xs:complexType>
598. <xs:sequence>
599. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
600. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
601. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
602. <xs:element minOccurs="0" name="width" type="xs:double"/>
603. </xs:sequence>
604. </xs:complexType>
605. </xs:element>
606. <xs:element name="ApplyShapeOutlineWidthResponse">
607. <xs:complexType>
608. <xs:sequence>
609. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineWidthResult" nillable="true" type="tns3:ServiceResult"/>
610. </xs:sequence>
611. </xs:complexType>
612. </xs:element>
613. <xs:element name="ApplyShapeOutlineDashStyle">
614. <xs:complexType>
615. <xs:sequence>
616. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
617. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
618. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
619. <xs:element minOccurs="0" name="dashType" type="xs:unsignedInt"/>
620. </xs:sequence>
621. </xs:complexType>
622. </xs:element>
623. <xs:element name="ApplyShapeOutlineDashStyleResponse">
624. <xs:complexType>
625. <xs:sequence>
626. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineDashStyleResult" nillable="true" type="tns3:ServiceResult"/>
627. </xs:sequence>
628. </xs:complexType>
629. </xs:element>
630. <xs:element name="ApplyShapeOutlineEndStyle">
631. <xs:complexType>
632. <xs:sequence>
633. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
634. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
635. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
636. <xs:element minOccurs="0" name="headEndType" type="xs:unsignedInt"/>
637. <xs:element minOccurs="0" name="tailEndType" type="xs:unsignedInt"/>
638. </xs:sequence>
639. </xs:complexType>
640. </xs:element>
641. <xs:element name="ApplyShapeOutlineEndStyleResponse">
642. <xs:complexType>
643. <xs:sequence>
644. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyShapeOutlineEndStyleResult" nillable="true" type="tns3:ServiceResult"/>
645. </xs:sequence>
646. </xs:complexType>
647. </xs:element>
648. <xs:element name="RemoveShapeOutline">
649. <xs:complexType>
650. <xs:sequence>
651. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
652. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
653. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
654. </xs:sequence>
655. </xs:complexType>
656. </xs:element>
657. <xs:element name="RemoveShapeOutlineResponse">
658. <xs:complexType>
659. <xs:sequence>
660. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="RemoveShapeOutlineResult" nillable="true" type="tns3:ServiceResult"/>
661. </xs:sequence>
662. </xs:complexType>
663. </xs:element>
664. <xs:element name="SaveAndClose">
665. <xs:complexType>
666. <xs:sequence>
667. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
668. <xs:element minOccurs="0" name="fReleaseLock" type="xs:boolean"/>
669. <xs:element minOccurs="0" name="fWaitForSave" type="xs:boolean"/>
670. </xs:sequence>
671. </xs:complexType>
672. </xs:element>
673. <xs:element name="SaveAndCloseResponse">
674. <xs:complexType>
675. <xs:sequence>
676. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SaveAndCloseResult" nillable="true" type="tns3:ServiceResult"/>
677. </xs:sequence>
678. </xs:complexType>
679. </xs:element>
680. <xs:element name="UpdateCanary">
681. <xs:complexType>
682. <xs:sequence>
683. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
684. </xs:sequence>
685. </xs:complexType>
686. </xs:element>
687. <xs:element name="UpdateCanaryResponse">
688. <xs:complexType>
689. <xs:sequence>
690. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="UpdateCanaryResult" nillable="true" type="tns3:ServiceResult"/>
691. </xs:sequence>
692. </xs:complexType>
693. </xs:element>
694. <xs:element name="Print">
695. <xs:complexType>
696. <xs:sequence>
697. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
698. </xs:sequence>
699. </xs:complexType>
700. </xs:element>
701. <xs:element name="PrintResponse">
702. <xs:complexType>
703. <xs:sequence>
704. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="PrintResult" nillable="true" type="tns3:ServiceResult"/>
705. </xs:sequence>
706. </xs:complexType>
707. </xs:element>
708. <xs:element name="ChangeSmartArtLayout">
709. <xs:complexType>
710. <xs:sequence>
711. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
712. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
713. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
714. <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
715. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
716. </xs:sequence>
717. </xs:complexType>
718. </xs:element>
719. <xs:element name="ChangeSmartArtLayoutResponse">
720. <xs:complexType>
721. <xs:sequence>
722. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtLayoutResult" nillable="true" type="tns3:ServiceResult"/>
723. </xs:sequence>
724. </xs:complexType>
725. </xs:element>
726. <xs:element name="ChangeSmartArtColor">
727. <xs:complexType>
728. <xs:sequence>
729. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
730. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
731. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
732. <xs:element minOccurs="0" name="colorTransUri" nillable="true" type="xs:string"/>
733. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
734. </xs:sequence>
735. </xs:complexType>
736. </xs:element>
737. <xs:element name="ChangeSmartArtColorResponse">
738. <xs:complexType>
739. <xs:sequence>
740. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtColorResult" nillable="true" type="tns3:ServiceResult"/>
741. </xs:sequence>
742. </xs:complexType>
743. </xs:element>
744. <xs:element name="ChangeSmartArtStyle">
745. <xs:complexType>
746. <xs:sequence>
747. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
748. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
749. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
750. <xs:element minOccurs="0" name="styleUri" nillable="true" type="xs:string"/>
751. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
752. </xs:sequence>
753. </xs:complexType>
754. </xs:element>
755. <xs:element name="ChangeSmartArtStyleResponse">
756. <xs:complexType>
757. <xs:sequence>
758. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeSmartArtStyleResult" nillable="true" type="tns3:ServiceResult"/>
759. </xs:sequence>
760. </xs:complexType>
761. </xs:element>
762. <xs:element name="InsertSmartArt">
763. <xs:complexType>
764. <xs:sequence>
765. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
766. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
767. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
768. <xs:element minOccurs="0" name="layoutUri" nillable="true" type="xs:string"/>
769. <xs:element minOccurs="0" name="category" nillable="true" type="xs:string"/>
770. </xs:sequence>
771. </xs:complexType>
772. </xs:element>
773. <xs:element name="InsertSmartArtResponse">
774. <xs:complexType>
775. <xs:sequence>
776. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
777. </xs:sequence>
778. </xs:complexType>
779. </xs:element>
780. <xs:element name="ResetSmartArt">
781. <xs:complexType>
782. <xs:sequence>
783. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
784. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
785. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
786. </xs:sequence>
787. </xs:complexType>
788. </xs:element>
789. <xs:element name="ResetSmartArtResponse">
790. <xs:complexType>
791. <xs:sequence>
792. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ResetSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
793. </xs:sequence>
794. </xs:complexType>
795. </xs:element>
796. <xs:element name="ReverseSmartArt">
797. <xs:complexType>
798. <xs:sequence>
799. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
800. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
801. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
802. </xs:sequence>
803. </xs:complexType>
804. </xs:element>
805. <xs:element name="ReverseSmartArtResponse">
806. <xs:complexType>
807. <xs:sequence>
808. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ReverseSmartArtResult" nillable="true" type="tns3:ServiceResult"/>
809. </xs:sequence>
810. </xs:complexType>
811. </xs:element>
812. <xs:element name="ApplyTheme">
813. <xs:complexType>
814. <xs:sequence>
815. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
816. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
817. <xs:element minOccurs="0" name="themeFamilyId" nillable="true" type="xs:string"/>
818. <xs:element minOccurs="0" name="variantIndex" type="xs:int"/>
819. </xs:sequence>
820. </xs:complexType>
821. </xs:element>
822. <xs:element name="ApplyThemeResponse">
823. <xs:complexType>
824. <xs:sequence>
825. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ApplyThemeResult" nillable="true" type="tns3:ServiceResult"/>
826. </xs:sequence>
827. </xs:complexType>
828. </xs:element>
829. <xs:element name="SetWordArt">
830. <xs:complexType>
831. <xs:sequence>
832. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
833. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
834. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
835. <xs:element minOccurs="0" name="styleId" type="xs:int"/>
836. <xs:element minOccurs="0" name="isClear" type="xs:boolean"/>
837. </xs:sequence>
838. </xs:complexType>
839. </xs:element>
840. <xs:element name="SetWordArtResponse">
841. <xs:complexType>
842. <xs:sequence>
843. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetWordArtResult" nillable="true" type="tns3:ServiceResult"/>
844. </xs:sequence>
845. </xs:complexType>
846. </xs:element>
847. <xs:element name="InsertClipart">
848. <xs:complexType>
849. <xs:sequence>
850. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
851. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
852. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
853. <xs:element minOccurs="0" name="assetId" nillable="true" type="xs:string"/>
854. <xs:element minOccurs="0" name="Lcid" nillable="true" type="xs:string"/>
855. <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
856. </xs:sequence>
857. </xs:complexType>
858. </xs:element>
859. <xs:element name="InsertClipartResponse">
860. <xs:complexType>
861. <xs:sequence>
862. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="InsertClipartResult" nillable="true" type="tns3:ServiceResult"/>
863. </xs:sequence>
864. </xs:complexType>
865. </xs:element>
866. <xs:element name="PastePicture">
867. <xs:complexType>
868. <xs:sequence>
869. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
870. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
871. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
872. <xs:element minOccurs="0" name="url" nillable="true" type="xs:string"/>
873. <xs:element minOccurs="0" name="alt" nillable="true" type="xs:string"/>
874. </xs:sequence>
875. </xs:complexType>
876. </xs:element>
877. <xs:element name="PastePictureResponse">
878. <xs:complexType>
879. <xs:sequence>
880. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="PastePictureResult" nillable="true" type="tns3:ServiceResult"/>
881. </xs:sequence>
882. </xs:complexType>
883. </xs:element>
884. <xs:element name="ShapeFormatPainting">
885. <xs:complexType>
886. <xs:sequence>
887. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
888. <xs:element minOccurs="0" name="sourceSlideId" nillable="true" type="xs:string"/>
889. <xs:element minOccurs="0" name="sourceShapeId" type="xs:unsignedInt"/>
890. <xs:element minOccurs="0" name="destinationSlideId" nillable="true" type="xs:string"/>
891. <xs:element minOccurs="0" name="destinationShapeId" type="xs:unsignedInt"/>
892. </xs:sequence>
893. </xs:complexType>
894. </xs:element>
895. <xs:element name="ShapeFormatPaintingResponse">
896. <xs:complexType>
897. <xs:sequence>
898. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ShapeFormatPaintingResult" nillable="true" type="tns3:ServiceResult"/>
899. </xs:sequence>
900. </xs:complexType>
901. </xs:element>
902. <xs:element name="AddComment">
903. <xs:complexType>
904. <xs:sequence>
905. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
906. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
907. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
908. <xs:element minOccurs="0" name="timeZoneBias" type="xs:int"/>
909. <xs:element minOccurs="0" name="parentAuthor" type="xs:int"/>
910. <xs:element minOccurs="0" name="parentIndex" type="xs:int"/>
911. <xs:element minOccurs="0" name="fHasPos" type="xs:boolean"/>
912. <xs:element minOccurs="0" name="x" type="xs:int"/>
913. <xs:element minOccurs="0" name="y" type="xs:int"/>
914. </xs:sequence>
915. </xs:complexType>
916. </xs:element>
917. <xs:element name="AddCommentResponse">
918. <xs:complexType>
919. <xs:sequence>
920. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="AddCommentResult" nillable="true" type="tns3:ServiceResult"/>
921. </xs:sequence>
922. </xs:complexType>
923. </xs:element>
924. <xs:element name="DeleteComment">
925. <xs:complexType>
926. <xs:sequence>
927. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
928. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
929. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
930. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
931. </xs:sequence>
932. </xs:complexType>
933. </xs:element>
934. <xs:element name="DeleteCommentResponse">
935. <xs:complexType>
936. <xs:sequence>
937. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="DeleteCommentResult" nillable="true" type="tns3:ServiceResult"/>
938. </xs:sequence>
939. </xs:complexType>
940. </xs:element>
941. <xs:element name="EditComment">
942. <xs:complexType>
943. <xs:sequence>
944. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
945. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
946. <xs:element minOccurs="0" name="text" nillable="true" type="xs:string"/>
947. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
948. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
949. </xs:sequence>
950. </xs:complexType>
951. </xs:element>
952. <xs:element name="EditCommentResponse">
953. <xs:complexType>
954. <xs:sequence>
955. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="EditCommentResult" nillable="true" type="tns3:ServiceResult"/>
956. </xs:sequence>
957. </xs:complexType>
958. </xs:element>
959. <xs:element name="MoveComment">
960. <xs:complexType>
961. <xs:sequence>
962. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
963. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
964. <xs:element minOccurs="0" name="authorId" type="xs:unsignedInt"/>
965. <xs:element minOccurs="0" name="index" type="xs:unsignedInt"/>
966. <xs:element minOccurs="0" name="x" type="xs:double"/>
967. <xs:element minOccurs="0" name="y" type="xs:double"/>
968. </xs:sequence>
969. </xs:complexType>
970. </xs:element>
971. <xs:element name="MoveCommentResponse">
972. <xs:complexType>
973. <xs:sequence>
974. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="MoveCommentResult" nillable="true" type="tns3:ServiceResult"/>
975. </xs:sequence>
976. </xs:complexType>
977. </xs:element>
978. <xs:element name="SetShapeBold">
979. <xs:complexType>
980. <xs:sequence>
981. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
982. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
983. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
984. <xs:element minOccurs="0" name="isBold" type="xs:boolean"/>
985. </xs:sequence>
986. </xs:complexType>
987. </xs:element>
988. <xs:element name="SetShapeBoldResponse">
989. <xs:complexType>
990. <xs:sequence>
991. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeBoldResult" nillable="true" type="tns3:ServiceResult"/>
992. </xs:sequence>
993. </xs:complexType>
994. </xs:element>
995. <xs:element name="SetShapeItalic">
996. <xs:complexType>
997. <xs:sequence>
998. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
999. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1000. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1001. <xs:element minOccurs="0" name="isItalic" type="xs:boolean"/>
1002. </xs:sequence>
1003. </xs:complexType>
1004. </xs:element>
1005. <xs:element name="SetShapeItalicResponse">
1006. <xs:complexType>
1007. <xs:sequence>
1008. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeItalicResult" nillable="true" type="tns3:ServiceResult"/>
1009. </xs:sequence>
1010. </xs:complexType>
1011. </xs:element>
1012. <xs:element name="SetShapeUnderline">
1013. <xs:complexType>
1014. <xs:sequence>
1015. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1016. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1017. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1018. <xs:element minOccurs="0" name="isUnderline" type="xs:boolean"/>
1019. </xs:sequence>
1020. </xs:complexType>
1021. </xs:element>
1022. <xs:element name="SetShapeUnderlineResponse">
1023. <xs:complexType>
1024. <xs:sequence>
1025. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeUnderlineResult" nillable="true" type="tns3:ServiceResult"/>
1026. </xs:sequence>
1027. </xs:complexType>
1028. </xs:element>
1029. <xs:element name="SetShapeAlignment">
1030. <xs:complexType>
1031. <xs:sequence>
1032. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1033. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1034. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1035. <xs:element minOccurs="0" name="textAlignment" type="xs:unsignedInt"/>
1036. </xs:sequence>
1037. </xs:complexType>
1038. </xs:element>
1039. <xs:element name="SetShapeAlignmentResponse">
1040. <xs:complexType>
1041. <xs:sequence>
1042. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeAlignmentResult" nillable="true" type="tns3:ServiceResult"/>
1043. </xs:sequence>
1044. </xs:complexType>
1045. </xs:element>
1046. <xs:element name="SetShapeFontName">
1047. <xs:complexType>
1048. <xs:sequence>
1049. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1050. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1051. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1052. <xs:element minOccurs="0" name="fontName" nillable="true" type="xs:string"/>
1053. </xs:sequence>
1054. </xs:complexType>
1055. </xs:element>
1056. <xs:element name="SetShapeFontNameResponse">
1057. <xs:complexType>
1058. <xs:sequence>
1059. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontNameResult" nillable="true" type="tns3:ServiceResult"/>
1060. </xs:sequence>
1061. </xs:complexType>
1062. </xs:element>
1063. <xs:element name="SetShapeFontSize">
1064. <xs:complexType>
1065. <xs:sequence>
1066. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1067. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1068. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1069. <xs:element minOccurs="0" name="fontSize" type="xs:unsignedInt"/>
1070. </xs:sequence>
1071. </xs:complexType>
1072. </xs:element>
1073. <xs:element name="SetShapeFontSizeResponse">
1074. <xs:complexType>
1075. <xs:sequence>
1076. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontSizeResult" nillable="true" type="tns3:ServiceResult"/>
1077. </xs:sequence>
1078. </xs:complexType>
1079. </xs:element>
1080. <xs:element name="SetShapeFontColor">
1081. <xs:complexType>
1082. <xs:sequence>
1083. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1084. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1085. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1086. <xs:element minOccurs="0" name="RGBColor" nillable="true" type="xs:string"/>
1087. </xs:sequence>
1088. </xs:complexType>
1089. </xs:element>
1090. <xs:element name="SetShapeFontColorResponse">
1091. <xs:complexType>
1092. <xs:sequence>
1093. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeFontColorResult" nillable="true" type="tns3:ServiceResult"/>
1094. </xs:sequence>
1095. </xs:complexType>
1096. </xs:element>
1097. <xs:element name="SetShapeBullet">
1098. <xs:complexType>
1099. <xs:sequence>
1100. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1101. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1102. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1103. <xs:element minOccurs="0" name="textBullet" type="xs:unsignedInt"/>
1104. </xs:sequence>
1105. </xs:complexType>
1106. </xs:element>
1107. <xs:element name="SetShapeBulletResponse">
1108. <xs:complexType>
1109. <xs:sequence>
1110. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeBulletResult" nillable="true" type="tns3:ServiceResult"/>
1111. </xs:sequence>
1112. </xs:complexType>
1113. </xs:element>
1114. <xs:element name="SetShapeTextDirection">
1115. <xs:complexType>
1116. <xs:sequence>
1117. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1118. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1119. <xs:element minOccurs="0" name="shapeId" type="xs:unsignedInt"/>
1120. <xs:element minOccurs="0" name="textDirection" type="xs:unsignedInt"/>
1121. </xs:sequence>
1122. </xs:complexType>
1123. </xs:element>
1124. <xs:element name="SetShapeTextDirectionResponse">
1125. <xs:complexType>
1126. <xs:sequence>
1127. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="SetShapeTextDirectionResult" nillable="true" type="tns3:ServiceResult"/>
1128. </xs:sequence>
1129. </xs:complexType>
1130. </xs:element>
1131. <xs:element name="ChangeLayout">
1132. <xs:complexType>
1133. <xs:sequence>
1134. <xs:element minOccurs="0" name="presentationId" nillable="true" type="xs:string"/>
1135. <xs:element minOccurs="0" name="slideId" nillable="true" type="xs:string"/>
1136. <xs:element minOccurs="0" name="mainMasterId" type="xs:unsignedInt"/>
1137. <xs:element minOccurs="0" name="contentMasterId" type="xs:unsignedInt"/>
1138. </xs:sequence>
1139. </xs:complexType>
1140. </xs:element>
1141. <xs:element name="ChangeLayoutResponse">
1142. <xs:complexType>
1143. <xs:sequence>
1144. <xs:element xmlns:tns3="http://schemas.datacontract.org/2004/07/p" minOccurs="0" name="ChangeLayoutResult" nillable="true" type="tns3:ServiceResult"/>
1145. </xs:sequence>
1146. </xs:complexType>
1147. </xs:element>
1148. </xs:schema>

# Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

* Microsoft PowerPoint 2010
* Microsoft PowerPoint Online
* Microsoft PowerPoint 2013
* Microsoft PowerPoint 2016

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

[<1> Section 2.1](#Appendix_A_Target_1): PowerPoint Online servers support JSON [[RFC4627]](https://go.microsoft.com/fwlink/?LinkId=140879) over HTTP and HTTPS.

[<2> Section 2.2.4](#Appendix_A_Target_2): Support for this complex type was added in Microsoft Office 2013.

[<3> Section 2.2.4](#Appendix_A_Target_3): Support for this complex type was added in Office 2013.

[<4> Section 2.2.4](#Appendix_A_Target_4): Support for this complex type was added in Office 2013.

[<5> Section 2.2.4](#Appendix_A_Target_5): Support for this complex type was added in Office 2013.

[<6> Section 2.2.4](#Appendix_A_Target_6): Support for this complex type was added in Office 2013.

[<7> Section 2.2.4](#Appendix_A_Target_7): Support for this type was added in Microsoft Office 2010 suites Service Pack 1.

[<8> Section 2.2.4](#Appendix_A_Target_8): Support for this complex type was added in Office 2013.

[<9> Section 2.2.4](#Appendix_A_Target_9): Support for this complex type was added in Office 2013.

[<10> Section 2.2.4](#Appendix_A_Target_10): Support for this complex type was added in Office 2013.

[<11> Section 2.2.4](#Appendix_A_Target_11): Support for this complex type was added in Office 2013.

[<12> Section 2.2.4](#Appendix_A_Target_12): Support for this complex type was added in Office 2013.

[<13> Section 2.2.4](#Appendix_A_Target_13): Support for this complex type was added in Office 2013.

[<14> Section 2.2.4](#Appendix_A_Target_14): Support for this type was added in Office 2010 Service Pack 1.

[<15> Section 2.2.4](#Appendix_A_Target_15): Support for this complex type was added in Office 2013.

[<16> Section 2.2.4](#Appendix_A_Target_16): Support for this type was added in Office 2013.

[<17> Section 2.2.4](#Appendix_A_Target_17): Support for this complex type was added in Office 2013.

[<18> Section 2.2.4.1](#Appendix_A_Target_18): Support for this complex type was added in Office 2013.

[<19> Section 2.2.4.3](#Appendix_A_Target_19): Support for this complex type was added in Office 2013.

[<20> Section 2.2.4.4](#Appendix_A_Target_20): Support for this complex type was added in Office 2013.

[<21> Section 2.2.4.12](#Appendix_A_Target_21): Support for this complex type was added in Office 2013.

[<22> Section 2.2.4.15](#Appendix_A_Target_22): Support for this complex type was added in Office 2013.

[<23> Section 2.2.4.16](#Appendix_A_Target_23): Support for this type was added in Office 2010 Service Pack 1.

[<24> Section 2.2.4.17](#Appendix_A_Target_24): Support for this complex type was added in Office 2013.

[<25> Section 2.2.4.18](#Appendix_A_Target_25): Support for this complex type was added in Office 2013.

[<26> Section 2.2.4.19](#Appendix_A_Target_26): Support for this complex type was added in Office 2013.

[<27> Section 2.2.4.22](#Appendix_A_Target_27): Support for this complex type was added in Office 2013.

[<28> Section 2.2.4.24](#Appendix_A_Target_28): Support for this complex type was added in Office 2013.

[<29> Section 2.2.4.25](#Appendix_A_Target_29): Support for this element was added in Office 2010 Service Pack 1.

[<30> Section 2.2.4.26](#Appendix_A_Target_30): Support for this element was added in Office 2010 Service Pack 1.

[<31> Section 2.2.4.32](#Appendix_A_Target_31): Support for this complex type was added in Office 2013.

[<32> Section 2.2.4.39](#Appendix_A_Target_32): Support for this type was added in Office 2010 Service Pack 1.

[<33> Section 2.2.4.40](#Appendix_A_Target_33): Support for this complex type was added in Office 2013.

[<34> Section 2.2.4.44](#Appendix_A_Target_34): Support for this type was added in Office 2013.

[<35> Section 2.2.4.48](#Appendix_A_Target_35): Support for this complex type was added in Office 2013.

[<36> Section 2.2.4.51](#Appendix_A_Target_36): PowerPoint Online defines this type as a **string** ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) that specifies the identifier of the image.

To retrieve an image, the protocol client sends a request to the protocol server at the endpoint formed by appending "/\_layouts/editImageHandler.ashx" to the URL of the [**website**](#gt_04b6a259-c555-4695-a236-57a32087deac), for example http: //www.contoso.com/Repository/\_layouts/editImageHandler.ashx.

The parameters to the endpoint are specified by the following table:

| Parameter name | Definition |
| --- | --- |
| Rid | MUST be ImgId as specified by **ViewElement** (section [2.2.4.51](#Section_cafdb2341b284e04b83eddd62579097a)). |
| Pid | MUST be a valid identifier for a presentation as specified in **GetPresentationId** (section [3.1.4.27](#Section_ff8c5a0618624ce19d8e480d6e62552b)). |

[<37> Section 3.1.3](#Appendix_A_Target_37): The URL conforms to the following structure in Office 2010: *base URL*/\_vti\_bin/ppt/edit.svc

[<38> Section 3.1.3](#Appendix_A_Target_38): The insert picture operation is used to insert a picture into a [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae).

In Office 2010, the protocol server endpoint to insert picture content is formed by appending "/\_layouts/pptInsertPicture.ashx" to the URL of the website, for example http://[www.contoso.com/\_layouts/pptInsertPicture.ashx](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](http://www.contoso.com/p/pptInsertPicture.ashx).

The parameters to the endpoint are specified by the following table:

| Parameter name | Definition |
| --- | --- |
| PresentationId | MUST be a valid identifier of a presentation as specified by section 3.1.4.27. |
| SlideId | MUST be a valid **string** ([XMLSCHEMA2] section 3.2.1) that specifies the identifier of the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192)as specified by **ST\_SlideId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.13). |
| ShapeId | MUST be a valid **unsignedInt** ([XMLSCHEMA2] section 3.3.22) that specifies the identifier of the shapeas specified by **ST\_DrawingElementId** ([ISO/IEC29500-1:2016] section 20.1.10.21). |

[<39> Section 3.1.4](#Appendix_A_Target_39): Support for this operation was added in Office 2013.

[<40> Section 3.1.4](#Appendix_A_Target_40): Support for this operation was added in Office 2013.

[<41> Section 3.1.4](#Appendix_A_Target_41): Support for this operation was added in Office 2013.

[<42> Section 3.1.4](#Appendix_A_Target_42): Support for this operation was added in Office 2013.

[<43> Section 3.1.4](#Appendix_A_Target_43): Support for this operation was added in Office 2013.

[<44> Section 3.1.4](#Appendix_A_Target_44): Support for this operation was added in Office 2013.

[<45> Section 3.1.4](#Appendix_A_Target_45): Support for this operation was added in Office 2013.

[<46> Section 3.1.4](#Appendix_A_Target_46): Support for this operation was added in Office 2010 Service Pack 1.

[<47> Section 3.1.4](#Appendix_A_Target_47): Support for this operation was added in Office 2013.

[<48> Section 3.1.4](#Appendix_A_Target_48): Support for this operation was added in Office 2013.

[<49> Section 3.1.4](#Appendix_A_Target_49): Support for this operation was added in Office 2013.

[<50> Section 3.1.4](#Appendix_A_Target_50): Support for this operation was added in Office 2013.

[<51> Section 3.1.4](#Appendix_A_Target_51): Support for this operation was added in Office 2013.

[<52> Section 3.1.4](#Appendix_A_Target_52): Support for this operation was added in Office 2013.

[<53> Section 3.1.4](#Appendix_A_Target_53): Support for this operation was added in Office 2013.

[<54> Section 3.1.4](#Appendix_A_Target_54): Support for this operation was added in Office 2010 Service Pack 1.

[<55> Section 3.1.4](#Appendix_A_Target_55): Support for this operation was added in Office 2013.

[<56> Section 3.1.4](#Appendix_A_Target_56): Support for this operation was added in Office 2013.

[<57> Section 3.1.4](#Appendix_A_Target_57): Support for this operation was added in Office 2013.

[<58> Section 3.1.4](#Appendix_A_Target_58): Support for this operation was added in Office 2010 Service Pack 1.

[<59> Section 3.1.4](#Appendix_A_Target_59): Support for this operation was added in Office 2013.

[<60> Section 3.1.4](#Appendix_A_Target_60): Support for this operation was added in Office 2013.

[<61> Section 3.1.4](#Appendix_A_Target_61): Support for this operation was added in Office 2013.

[<62> Section 3.1.4](#Appendix_A_Target_62): Support for this operation was added in Office 2013.

[<63> Section 3.1.4](#Appendix_A_Target_63): Support for this operation was added in Office 2013.

[<64> Section 3.1.4](#Appendix_A_Target_64): Support for this operation was added in Office 2013.

[<65> Section 3.1.4](#Appendix_A_Target_65): Support for this operation was added in Office 2013.

[<66> Section 3.1.4](#Appendix_A_Target_66): Support for this operation was added in Office 2013.

[<67> Section 3.1.4](#Appendix_A_Target_67): Support for this operation was added in Office 2013.

[<68> Section 3.1.4](#Appendix_A_Target_68): Support for this operation was added in Office 2013.

[<69> Section 3.1.4](#Appendix_A_Target_69): Support for this operation was added in Office 2013.

[<70> Section 3.1.4.1](#Appendix_A_Target_70): Support for this operation was added in Office 2013.

[<71> Section 3.1.4.2](#Appendix_A_Target_71): Support for this operation was added in Office 2013.

[<72> Section 3.1.4.3](#Appendix_A_Target_72): Support for this operation was added in Office 2013.

[<73> Section 3.1.4.4](#Appendix_A_Target_73): Support for this operation was added in Office 2013.

[<74> Section 3.1.4.5](#Appendix_A_Target_74): Support for this operation was added in Office 2013.

[<75> Section 3.1.4.6](#Appendix_A_Target_75): Support for this operation was added in Office 2013.

[<76> Section 3.1.4.7](#Appendix_A_Target_76): Support for this operation was added in Office 2013.

[<77> Section 3.1.4.8](#Appendix_A_Target_77): Support for this operation was added in Office 2010 Service Pack 1.

[<78> Section 3.1.4.9](#Appendix_A_Target_78): Support for this operation was added in Office 2013.

[<79> Section 3.1.4.16](#Appendix_A_Target_79): Support for this operation was added in Office 2013.

[<80> Section 3.1.4.18](#Appendix_A_Target_80): Support for this operation was added in Office 2013.

[<81> Section 3.1.4.20](#Appendix_A_Target_81): Support for this operation was added in Office 2013.

[<82> Section 3.1.4.21](#Appendix_A_Target_82): Support for this operation was added in Office 2013.

[<83> Section 3.1.4.22](#Appendix_A_Target_83): Support for this operation was added in Office 2013.

[<84> Section 3.1.4.24](#Appendix_A_Target_84): Support for this operation was added in Office 2013.

[<85> Section 3.1.4.28](#Appendix_A_Target_85): Support for this operation was added in Office 2010 Service Pack 1.

[<86> Section 3.1.4.29](#Appendix_A_Target_86): Support for this operation was added in Office 2013.

[<87> Section 3.1.4.33](#Appendix_A_Target_87): Support for this operation was added in Office 2013.

[<88> Section 3.1.4.34](#Appendix_A_Target_88): Support for this operation was added in Office 2013.

[<89> Section 3.1.4.37](#Appendix_A_Target_89): Support for this operation was added in Office 2010 Service Pack 1.

[<90> Section 3.1.4.39](#Appendix_A_Target_90): Support for this operation was added in Office 2013.

[<91> Section 3.1.4.40](#Appendix_A_Target_91): Support for this operation was added in Office 2013.

[<92> Section 3.1.4.41](#Appendix_A_Target_92): Support for this operation was added in Office 2013.

[<93> Section 3.1.4.44](#Appendix_A_Target_93): Support for this operation was added in Office 2013.

[<94> Section 3.1.4.46](#Appendix_A_Target_94): Support for this operation was added in Office 2013.

[<95> Section 3.1.4.48](#Appendix_A_Target_95): Support for this operation was added in Office 2013.

[<96> Section 3.1.4.50](#Appendix_A_Target_96): Support for this operation was added in Office 2013.

[<97> Section 3.1.4.60](#Appendix_A_Target_97): Support for this operation was added in Office 2013.

[<98> Section 3.1.4.61](#Appendix_A_Target_98): Support for this operation was added in Office 2013.

[<99> Section 3.1.4.63](#Appendix_A_Target_99): Support for this operation was added in Office 2013.

[<100> Section 3.1.4.66](#Appendix_A_Target_100): Support for this operation was added in Office 2013.

[<101> Section 5.1](#Appendix_A_Target_101): PowerPoint Online uses the canary mitigation as follows. On a request to **GetPresentationId** (section 3.1.4.27), an HTTP [**cookie**](#gt_4ce32dd3-0d29-40cb-bfd7-c220d7c7ba3f) 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**](#gt_959f8d48-a88c-4113-b111-a3fa116ff768) value, for example when the canary has expired.

# Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

* A document revision that incorporates changes to interoperability requirements.
* A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

| Section | Description | Revision class |
| --- | --- | --- |
| [3.1.4.2.2.1](#Section_a4975a7749024f328ab32773d8488169) ApplyShapeFill | Updated description for slideId and shapeId. | Minor |
| [3.1.4.30.2.1](#Section_579ff846e63845a88e5c121b229a846b) InsertSlide | Updated description for dstId, mainMasterId and contentMasterId. | Minor |
| [3.1.4.37.2.2](#Section_034699635f8c46c2b6e76d3655b375ef) PrintResponse | Updated description for PrintResult element. | Minor |

# Index

A

Abstract data model

[server](#section_97b26ad2f9544176ad6621fb5c1cffe0) 63

[Applicability](#section_56236cfb8cdb4cca88de7a578167b79f) 24

[ArrayOfComment complex type](#section_6f6913b6eb184c35ba7a4d77b2cb5b20) 29

[ArrayOfContentMasterFe complex type](#section_749111c845824e7589b3fa5a2dc83279) 30

[ArrayOfEditAnimInfo complex type](#section_9f91e284c93c49eea6bcc8a52fb95126) 30

[ArrayOfEditorInfo complex type](#section_291d7839c2dd4e0d9f1ff1678b8c81ca) 30

[ArrayOfEditShape complex type](#section_dff6cd008c224f2b80d5e7a1d5cd3cff) 30

[ArrayOfEditSlide complex type](#section_fcc4572fd1594104a03f0fd5f928b86b) 31

[ArrayOfEditSlideChanges complex type](#section_282ae8cda07540ae8ecd7f847804cd89) 31

[ArrayOfEditSlideInfoFe complex type](#section_0d8b11b13d2947c9b556eb37eb3c74eb) 31

[ArrayOfMainMasterFe complex type](#section_449739c8e30e43fb8c2255f541049d32) 31

[ArrayOfMainMasterResourcesFe complex type](#section_05fb635e8f914f9cba1c15d7425f1583) 32

[ArrayOfSlideUpdateInfo complex type](#section_fd327b86b20f4614833ed52e1a4c7cee) 32

[ArrayOfStyleGalleryItem complex type](#section_bc61d6ce70ee4f96be6fba71b57a7641) 32

[ArrayOfunsignedInt complex type](#section_f42f1f2b60294566b76279a4516bb1b1) 33

[ArrayOfViewElement complex type](#section_55481e4b30854c5590689d6a26632488) 33

[Attribute groups](#section_87347fd29e884a1e8f4092caf53f27e7) 61

[Attributes](#section_20528ff2484a451d8e0882da5c80a1f0) 61

B

[BoundingRegion complex type](#section_ca2944f74db3475885816744f28170e8) 33

C

[Capability negotiation](#section_e67dea552e67488c8f88387af6ee29b3) 24

[Change tracking](#section_ac2aefb5253145c48219583e1237202f) 295

[char simple type](#section_17c30ad6538d4ecc977bf3c264428878) 54

[ClientActions simple type](#section_692bbb3aee6c466781369f909b88b1f7) 55

[ClippingInfo complex type](#section_95af3e9d8ec045ebbf4b7a30d67cea60) 34

[CoauthState complex type](#section_61b7b47cdd9045ed9ccd968320455c39) 34

[CoauthUpdate complex type](#section_2f1215e42a7144d59bf904d45b954446) 35

[Comment complex type](#section_46de162f9a00448fa230b878a950fa51) 35

[Complex types](#section_01b2413755ef44619ff0f1a8612dcb04) 27

[ArrayOfComment](#section_6f6913b6eb184c35ba7a4d77b2cb5b20) 29

[ArrayOfContentMasterFe](#section_749111c845824e7589b3fa5a2dc83279) 30

[ArrayOfEditAnimInfo](#section_9f91e284c93c49eea6bcc8a52fb95126) 30

[ArrayOfEditorInfo](#section_291d7839c2dd4e0d9f1ff1678b8c81ca) 30

[ArrayOfEditShape](#section_dff6cd008c224f2b80d5e7a1d5cd3cff) 30

[ArrayOfEditSlide](#section_fcc4572fd1594104a03f0fd5f928b86b) 31

[ArrayOfEditSlideChanges](#section_282ae8cda07540ae8ecd7f847804cd89) 31

[ArrayOfEditSlideInfoFe](#section_0d8b11b13d2947c9b556eb37eb3c74eb) 31

[ArrayOfMainMasterFe](#section_449739c8e30e43fb8c2255f541049d32) 31

[ArrayOfMainMasterResourcesFe](#section_05fb635e8f914f9cba1c15d7425f1583) 32

[ArrayOfSlideUpdateInfo](#section_fd327b86b20f4614833ed52e1a4c7cee) 32

[ArrayOfStyleGalleryItem](#section_bc61d6ce70ee4f96be6fba71b57a7641) 32

[ArrayOfunsignedInt](#section_f42f1f2b60294566b76279a4516bb1b1) 33

[ArrayOfViewElement](#section_55481e4b30854c5590689d6a26632488) 33

[BoundingRegion](#section_ca2944f74db3475885816744f28170e8) 33

[ClippingInfo](#section_95af3e9d8ec045ebbf4b7a30d67cea60) 34

[CoauthState](#section_61b7b47cdd9045ed9ccd968320455c39) 34

[CoauthUpdate](#section_2f1215e42a7144d59bf904d45b954446) 35

[Comment](#section_46de162f9a00448fa230b878a950fa51) 35

[ContentMasterFe](#section_14bd2bdb36414cb199a6728f5ea5befc) 35

[ContentUpdateInfo](#section_657c78b5fe734e1a8375c1f6c5e1c690) 36

[EditAnimInfo](#section_6e3db19a3bd14406aa382873b86d9126) 36

[EditCommandResponse](#section_209d1536329448088b39e603b9cac8ac) 37

[EditorInfo](#section_787fb0d84ee34672b17a56a115e68822) 37

[EditPresentationChanges](#section_d01bed2dea224de0a74b4426751b9b13) 38

[EditPresentationInfo](#section_f14fca82669f43029df18d74e7126888) 38

[EditPresentationResources](#section_85a666bf36ef4d298f8a3009fd4e43f6) 39

[EditShape](#section_7dcc2bd9a0404b3db0ecec119f0bc4d1) 40

[EditSlide](#section_536b029b31804ae2906e06a1d726b04f) 43

[EditSlideChanges](#section_01512d8cff77450096e0426d82ccccd7) 44

[EditSlideInfoFe](#section_2b6e2b26ca4a4daeae579828c4a10f33) 45

[EditTransitionInfo](#section_5c06fcde526d4ac691eb4440c19f64bd) 45

[FontSizeMapping](#section_e6d463751285462f92a348f9a7a9c20d) 46

[Html](#section_c76b94c6e97e47fbb887ff1e18b4b603) 46

[MainMasterFe](#section_d228db5cc2a74b10a6925869749120c1) 47

[MainMasterResourcesFe](#section_ab4965885ab840a7b5a21940335fd363) 47

[Notes](#section_a239527346a94a56aad6cf2a14e39e84) 48

[Point](#section_10c2d5bbb5ac493e88aa96e71282a80e) 48

[PptViewingService.PrintResult](#section_f4513c59438a4ab982b222f0609019e8) 48

[PresetSchemeColorMapping](#section_d3815f949834419da2673e30155c6f07) 48

[Rectangle](#section_be61d1b4429a49519bd7c0d61a34f916) 49

[ServiceError](#section_23d35324d34746639b4ace010e24e580) 50

[ServiceResult](#section_7479118d288e4cc6a2c4cfc65dd33a91) 50

[SlideID](#section_f8abaf101b2f4008bc760f05b42fc7d0) 51

[SlideIdList](#section_98c6777246f64815afb9b577b73413ed) 51

[SlideUpdateInfo](#section_22acac818f5a40f6ae65f26a44cc587c) 51

[SmartArtInfo](#section_ce0ca9a9776349a78b40da1c55a90e50) 52

[StyleGalleryItem](#section_fc452ac273774489bccd8bdd040a2cb4) 52

[Theme](#section_a80c682d7a9b4531a3f9c2f2068ebd33) 52

[ThemeColor](#section_b6e6c92cc8ed4e04828a2620cf242e40) 53

[ViewElement](#section_cafdb2341b284e04b83eddd62579097a) 53

[ContentMasterFe complex type](#section_14bd2bdb36414cb199a6728f5ea5befc) 35

[ContentUpdateInfo complex type](#section_657c78b5fe734e1a8375c1f6c5e1c690) 36

D

Data model - abstract

[server](#section_97b26ad2f9544176ad6621fb5c1cffe0) 63

[duration simple type](#section_9cfa7a6e7ccf4ebcba497323a97b3979) 55

E

[EditAnimInfo complex type](#section_6e3db19a3bd14406aa382873b86d9126) 36

[EditCommandResponse complex type](#section_209d1536329448088b39e603b9cac8ac) 37

[EditorInfo complex type](#section_787fb0d84ee34672b17a56a115e68822) 37

[EditPresentationChanges complex type](#section_d01bed2dea224de0a74b4426751b9b13) 38

[EditPresentationInfo complex type](#section_f14fca82669f43029df18d74e7126888) 38

[EditPresentationResources complex type](#section_85a666bf36ef4d298f8a3009fd4e43f6) 39

[EditShape complex type](#section_7dcc2bd9a0404b3db0ecec119f0bc4d1) 40

[EditSlide complex type](#section_536b029b31804ae2906e06a1d726b04f) 43

[EditSlideChanges complex type](#section_01512d8cff77450096e0426d82ccccd7) 44

[EditSlideInfoFe complex type](#section_2b6e2b26ca4a4daeae579828c4a10f33) 45

[EditTransitionInfo complex type](#section_5c06fcde526d4ac691eb4440c19f64bd) 45

[ErrorCode simple type](#section_cd646c013f98443a93f91ab0b43767d0) 56

Events

[local - server](#section_bd640ea158cb4b4dad5559baff926829) 221

[timer - server](#section_02fbd43fa30f4ae592584f09b8534c8d) 221

Examples

[overview](#section_91d868aec0f643af9b5bd56550477bf2) 222

[sample protocol interaction](#section_87564124551c47bf8ea92805b556c2cb) 222

F

[Fields - vendor-extensible](#section_4b58447fcd794a1b9b398078251ad7a2) 25

[FontSizeMapping complex type](#section_e6d463751285462f92a348f9a7a9c20d) 46

[Full WSDL](#section_c5599d3e223d46d9bb46d67861f6c896) 233

[Full XML schema](#section_779d5b81f523470191b16dfd503e34ab) 260

[http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared Schema](#section_208a6cec5c5e4ff293278032226eeab6) 260

[http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface Schema](#section_6f24ea9b88524be8b26786ff6a454d9a) 261

[http://schemas.datacontract.org/2004/07/p Schema](#section_d0c3181d0e0642b8a01ba571f16ccc39) 262

[http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_db1adaca048d4287932668c4670d90a0) 270

[http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_8444ef7ec5224096b00a3a26ce75099d) 270

[http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ Schema](#section_43223e3f044d4368bf2304bead944057) 271

G

[Glossary](#section_50a8bfc632d047029509fcc717bea6e3) 20

[Groups](#section_ccdc9b2d493b4819b67ae60de008d5b2) 61

[guid simple type](#section_5ba264daaa54447c8a4a7af7f06280b3) 60

H

[Html complex type](#section_c76b94c6e97e47fbb887ff1e18b4b603) 46

I

[Implementer - security considerations](#section_c8c9188de5014a8bb121a150cc4834d1) 232

[Index of security parameters](#section_be4c2ace1984476e957fc4405ba7d94c) 232

[Informative references](#section_19a30f6c192244d7a5a3595e8686007a) 23

Initialization

[server](#section_648d7878e06047c9b7ee735513af8753) 63

[Introduction](#section_583c0749e4f9418d930ce6a7648f2d25) 20

L

Local events

[server](#section_bd640ea158cb4b4dad5559baff926829) 221

M

[MainMasterFe complex type](#section_d228db5cc2a74b10a6925869749120c1) 47

[MainMasterResourcesFe complex type](#section_ab4965885ab840a7b5a21940335fd363) 47

Message processing

[server](#section_8c83e61fbbf64a17868641b70133b4da) 63

Messages

[ArrayOfComment complex type](#section_6f6913b6eb184c35ba7a4d77b2cb5b20) 29

[ArrayOfContentMasterFe complex type](#section_749111c845824e7589b3fa5a2dc83279) 30

[ArrayOfEditAnimInfo complex type](#section_9f91e284c93c49eea6bcc8a52fb95126) 30

[ArrayOfEditorInfo complex type](#section_291d7839c2dd4e0d9f1ff1678b8c81ca) 30

[ArrayOfEditShape complex type](#section_dff6cd008c224f2b80d5e7a1d5cd3cff) 30

[ArrayOfEditSlide complex type](#section_fcc4572fd1594104a03f0fd5f928b86b) 31

[ArrayOfEditSlideChanges complex type](#section_282ae8cda07540ae8ecd7f847804cd89) 31

[ArrayOfEditSlideInfoFe complex type](#section_0d8b11b13d2947c9b556eb37eb3c74eb) 31

[ArrayOfMainMasterFe complex type](#section_449739c8e30e43fb8c2255f541049d32) 31

[ArrayOfMainMasterResourcesFe complex type](#section_05fb635e8f914f9cba1c15d7425f1583) 32

[ArrayOfSlideUpdateInfo complex type](#section_fd327b86b20f4614833ed52e1a4c7cee) 32

[ArrayOfStyleGalleryItem complex type](#section_bc61d6ce70ee4f96be6fba71b57a7641) 32

[ArrayOfunsignedInt complex type](#section_f42f1f2b60294566b76279a4516bb1b1) 33

[ArrayOfViewElement complex type](#section_55481e4b30854c5590689d6a26632488) 33

[attribute groups](#section_87347fd29e884a1e8f4092caf53f27e7) 61

[attributes](#section_20528ff2484a451d8e0882da5c80a1f0) 61

[BoundingRegion complex type](#section_ca2944f74db3475885816744f28170e8) 33

[char simple type](#section_17c30ad6538d4ecc977bf3c264428878) 54

[ClientActions simple type](#section_692bbb3aee6c466781369f909b88b1f7) 55

[ClippingInfo complex type](#section_95af3e9d8ec045ebbf4b7a30d67cea60) 34

[CoauthState complex type](#section_61b7b47cdd9045ed9ccd968320455c39) 34

[CoauthUpdate complex type](#section_2f1215e42a7144d59bf904d45b954446) 35

[Comment complex type](#section_46de162f9a00448fa230b878a950fa51) 35

[complex types](#section_01b2413755ef44619ff0f1a8612dcb04) 27

[ContentMasterFe complex type](#section_14bd2bdb36414cb199a6728f5ea5befc) 35

[ContentUpdateInfo complex type](#section_657c78b5fe734e1a8375c1f6c5e1c690) 36

[duration simple type](#section_9cfa7a6e7ccf4ebcba497323a97b3979) 55

[EditAnimInfo complex type](#section_6e3db19a3bd14406aa382873b86d9126) 36

[EditCommandResponse complex type](#section_209d1536329448088b39e603b9cac8ac) 37

[EditorInfo complex type](#section_787fb0d84ee34672b17a56a115e68822) 37

[EditPresentationChanges complex type](#section_d01bed2dea224de0a74b4426751b9b13) 38

[EditPresentationInfo complex type](#section_f14fca82669f43029df18d74e7126888) 38

[EditPresentationResources complex type](#section_85a666bf36ef4d298f8a3009fd4e43f6) 39

[EditShape complex type](#section_7dcc2bd9a0404b3db0ecec119f0bc4d1) 40

[EditSlide complex type](#section_536b029b31804ae2906e06a1d726b04f) 43

[EditSlideChanges complex type](#section_01512d8cff77450096e0426d82ccccd7) 44

[EditSlideInfoFe complex type](#section_2b6e2b26ca4a4daeae579828c4a10f33) 45

[EditTransitionInfo complex type](#section_5c06fcde526d4ac691eb4440c19f64bd) 45

[elements](#section_7c089f6d52604febb683cd1c12fc24ba) 27

[enumerated](#section_be2445121a2546af9113f35b1fe6a4e5) 27

[ErrorCode simple type](#section_cd646c013f98443a93f91ab0b43767d0) 56

[FontSizeMapping complex type](#section_e6d463751285462f92a348f9a7a9c20d) 46

[groups](#section_ccdc9b2d493b4819b67ae60de008d5b2) 61

[guid simple type](#section_5ba264daaa54447c8a4a7af7f06280b3) 60

[Html complex type](#section_c76b94c6e97e47fbb887ff1e18b4b603) 46

[MainMasterFe complex type](#section_d228db5cc2a74b10a6925869749120c1) 47

[MainMasterResourcesFe complex type](#section_ab4965885ab840a7b5a21940335fd363) 47

[namespaces](#section_331944591e9b4b2d9b78677e3806929d) 26

[Notes complex type](#section_a239527346a94a56aad6cf2a14e39e84) 48

[Point complex type](#section_10c2d5bbb5ac493e88aa96e71282a80e) 48

[PptViewingService.PrintResult complex type](#section_f4513c59438a4ab982b222f0609019e8) 48

[PresetSchemeColorMapping complex type](#section_d3815f949834419da2673e30155c6f07) 48

[Rectangle complex type](#section_be61d1b4429a49519bd7c0d61a34f916) 49

[ServiceError complex type](#section_23d35324d34746639b4ace010e24e580) 50

[ServiceErrorType simple type](#section_e125df52a9c841f89a80446fb632cc64) 60

[ServiceResult complex type](#section_7479118d288e4cc6a2c4cfc65dd33a91) 50

[simple types](#section_d896eced0a64445a8157d89508a43aee) 54

[SlideID complex type](#section_f8abaf101b2f4008bc760f05b42fc7d0) 51

[SlideIdList complex type](#section_98c6777246f64815afb9b577b73413ed) 51

[SlideUpdateInfo complex type](#section_22acac818f5a40f6ae65f26a44cc587c) 51

[SmartArtInfo complex type](#section_ce0ca9a9776349a78b40da1c55a90e50) 52

[StyleGalleryItem complex type](#section_fc452ac273774489bccd8bdd040a2cb4) 52

[syntax](#section_6cf46165776d46ae8ef771b6a9ff9b1d) 26

[Theme complex type](#section_a80c682d7a9b4531a3f9c2f2068ebd33) 52

[ThemeColor complex type](#section_b6e6c92cc8ed4e04828a2620cf242e40) 53

[transport](#section_1f501d8e70084d0f83659fc92d8110e4) 26

[ViewElement complex type](#section_cafdb2341b284e04b83eddd62579097a) 53

N

[Namespaces](#section_331944591e9b4b2d9b78677e3806929d) 26

[Normative references](#section_6ec60bbb2fa44d3d8b77f1ffe91d8ff4) 22

[Notes complex type](#section_a239527346a94a56aad6cf2a14e39e84) 48

O

Operations

[AddComment](#section_c5f5e07c61d64057b5415d0010e82a2c) 66

[ApplyShapeFill](#section_18602fd57c2a4328ba68e1d70c441d02) 69

[ApplyShapeOutlineColor](#section_2123b66a5f3a46f6b8b8259f098a9ff7) 71

[ApplyShapeOutlineDashStyle](#section_49fe57b24c3f49dd8121d546222ccfd4) 74

[ApplyShapeOutlineEndStyle](#section_2cf9aefa099a4fa5b36bf4ac2ffe2307) 77

[ApplyShapeOutlineWidth](#section_3e51ce76aef845d99a97ca14cef1b553) 80

[ApplyShapeStyle](#section_fe0d366acfda448da70d800a88d6da0d) 82

[ApplyTheme](#section_0d55d45a751e45ab9408540276ed947f) 84

[ArrangeShape](#section_2aa96394ef91466eb40b99a9e7ffb6aa) 86

[ChangeLayout](#section_356fa95163b64ca9a6df233f794f9ee7) 89

[ChangePictureStyle](#section_bc663a2aaf0d4b7791fda6ff8b9eb540) 91

[ChangeSmartArtColor](#section_728b969c2365463db32cf5454e977f6e) 93

[ChangeSmartArtLayout](#section_0314d5a451a14822a69c737622550fc4) 96

[ChangeSmartArtStyle](#section_6e4e5c487c5a4b8db48ea087745a5954) 98

[ClearPlaceholder](#section_5ff53e5f457f45e393266784492b009d) 101

[DeleteComment](#section_4184a898085447779204fdac7996a9b2) 103

[DeleteSlide](#section_b241bb4b7b7b483ebb7a054366390e8e) 105

[DuplicateShape](#section_a49d3296514b4c88b7f6ac8e6f7a63ff) 107

[DuplicateSlide](#section_2401ce95223041958320e37d777f1ca2) 110

[EditComment](#section_be67943702ea4679be7be1ee6cbbfc1c) 112

[FlipShape](#section_07f23b80dc894262ba71f4f74c0ce1a2) 114

[GetCoauthUpdates](#section_d4f47e05fccb4abaada7c0d188af767f) 116

[GetEditPresInfo](#section_8242bab4baf84c21b6cf71c15f8b5ddd) 119

[GetEditPresInfoGetEditSlideById](#section_08afa577ea864025a2fd800fea6b357b) 121

[GetEditPresResources](#section_1f6ea0c698f04aada98d271b8dc5404b) 124

[GetEditSlide](#section_92cf91deeb9f4b7cb1e6882244940f1c) 126

[GetPresentationId](#section_ff8c5a0618624ce19d8e480d6e62552b) 128

[InsertClipart](#section_147b77b79a6140bc913a551db585296b) 130

[InsertShape](#section_beaa54d03dd24273bc6f41e3e38149e5) 132

[InsertSlide](#section_d35fc8f1a6ac447fa77175963e1a1de4) 135

[InsertSmartArt](#section_07133fdae41c46acae97d591f2c5e94a) 137

[LogULS](#section_da7ca7f837ab4c38a557db4808bfeb43) 139

[MoveComment](#section_9575b5edd34345cf9eb5ee82c73dbb8e) 141

[MoveShape](#section_c12be80c123b4e4a9d14101c8cfdb39e) 144

[MoveSlide](#section_8b034e0434724583acc70b5f829cd11d) 146

[PastePicture](#section_a9c7ff8c8de649658d1bc8ede8c2ddde) 148

[Print](#section_df5fcbfb7116475c8bc4070c226992dd) 150

[Redo](#section_cc7c2552b8344942810ec42f0f1b99be) 152

[RemoveShapeFill](#section_35349c4eebb0468386e25b3b81a22ad7) 154

[RemoveShapeOutline](#section_0cf36455be4348f3a31c54fc83e91753) 156

[ReorderAnimation](#section_f203e9a7c17d48d7b600d8ef64e8921b) 159

[ReplaceNotes](#section_593636cf0ee3480cad1af5622a7f2096) 161

[ReplaceText](#section_cb513c03bcae45cd9416f0e4f9fc007b) 163

[ResetPicture](#section_7f3548cec70d4bc5843a17cd2a1b7d3c) 165

[ResetSmartArt](#section_ff95bd3fec624cceb95549911814e07a) 168

[ResizeShape](#section_4d5c3b9f20994ba6ae096a4eb429f57c) 170

[ReverseSmartArt](#section_7c4aa4e39f0f48e493db0205bd470eca) 172

[RotateShape](#section_0b5f7c1c91444c169cc80fe5b82f3395) 175

[SaveAndClose](#section_acfd760856f34cd0bd2cfc7fb2ebc99e) 177

[SetAnimation](#section_e4c6b1f9f1ba4545a5be8916ba56bdac) 179

[SetShapeAlignment](#section_a57e992d5b524e2d978bd7e6d98457d4) 182

[SetShapeBold](#section_2f5bd9ea3d2d493c91fb6fd22802daca) 185

[SetShapeBullet](#section_385d8728fc6d4d41a5d0394c319c5f06) 187

[SetShapeFontColor](#section_34940996d08e4b1288ad7e34c64e96ec) 189

[SetShapeFontName](#section_e5f36efc93b54922920ad1a2ce45415e) 191

[SetShapeFontSize](#section_6d9cf4712b024c8bbaf8a224bee49e00) 194

[SetShapeItalic](#section_bc8d97f8985149cfae164b7f0ed62560) 196

[SetShapeTextDirection](#section_19fa07d5b73f450ab5510cf9693c8fb8) 198

[SetShapeUnderline](#section_a0f0fabee8f94cd4ba37e627f27c4c4f) 201

[SetTransition](#section_922c25cad0e04bca85ae86d9e0e8285d) 203

[SetTransitionApplyAll](#section_00e522d82b6f4727950d50c312a6dff2) 206

[SetWordArt](#section_2b044e23364e4c0491f06905a18cb70c) 208

[ShapeFormatPainting](#section_4a4508840b1b416b860aead4f3330fe0) 210

[ShowHideSlide](#section_9b2e8fa49652403583e2862a7ba64d33) 213

[Undo](#section_88aae16b28cc4ddda1fa97326667682f) 215

[UngroupShape](#section_176bada9cea94d0fa2efd277e1a275ea) 217

[UpdateCanary](#section_c68064729f9e445ab9a01783206d2b14) 219

[Overview (synopsis)](#section_80bd4eaf14964e3baf93f883fad7df02) 23

P

[Parameters - security index](#section_be4c2ace1984476e957fc4405ba7d94c) 232

[Point complex type](#section_10c2d5bbb5ac493e88aa96e71282a80e) 48

[PptViewingService.PrintResult complex type](#section_f4513c59438a4ab982b222f0609019e8) 48

[Preconditions](#section_56b5e96b541a4caca41412b6ce82d26b) 24

[Prerequisites](#section_56b5e96b541a4caca41412b6ce82d26b) 24

[PresetSchemeColorMapping complex type](#section_d3815f949834419da2673e30155c6f07) 48

[Product behavior](#section_754b198dca294efc86a51242ff9052f3) 290

Protocol Details

[overview](#section_6b5b2af853ef49ab8041f58d9404fda2) 62

R

[Rectangle complex type](#section_be61d1b4429a49519bd7c0d61a34f916) 49

[References](#section_747e572a1e1842dcb6e67cec96797735) 22

[informative](#section_19a30f6c192244d7a5a3595e8686007a) 23

[normative](#section_6ec60bbb2fa44d3d8b77f1ffe91d8ff4) 22

[Relationship to other protocols](#section_365cce8172d14e9b90f5c3ccde9acd86) 24

S

[Sample protocol interaction example](#section_87564124551c47bf8ea92805b556c2cb) 222

Security

[implementer considerations](#section_c8c9188de5014a8bb121a150cc4834d1) 232

[parameter index](#section_be4c2ace1984476e957fc4405ba7d94c) 232

Sequencing rules

[server](#section_8c83e61fbbf64a17868641b70133b4da) 63

Server

[abstract data model](#section_97b26ad2f9544176ad6621fb5c1cffe0) 63

[AddComment operation](#section_c5f5e07c61d64057b5415d0010e82a2c) 66

[ApplyShapeFill operation](#section_18602fd57c2a4328ba68e1d70c441d02) 69

[ApplyShapeOutlineColor operation](#section_2123b66a5f3a46f6b8b8259f098a9ff7) 71

[ApplyShapeOutlineDashStyle operation](#section_49fe57b24c3f49dd8121d546222ccfd4) 74

[ApplyShapeOutlineEndStyle operation](#section_2cf9aefa099a4fa5b36bf4ac2ffe2307) 77

[ApplyShapeOutlineWidth operation](#section_3e51ce76aef845d99a97ca14cef1b553) 80

[ApplyShapeStyle operation](#section_fe0d366acfda448da70d800a88d6da0d) 82

[ApplyTheme operation](#section_0d55d45a751e45ab9408540276ed947f) 84

[ArrangeShape operation](#section_2aa96394ef91466eb40b99a9e7ffb6aa) 86

[ChangeLayout operation](#section_356fa95163b64ca9a6df233f794f9ee7) 89

[ChangePictureStyle operation](#section_bc663a2aaf0d4b7791fda6ff8b9eb540) 91

[ChangeSmartArtColor operation](#section_728b969c2365463db32cf5454e977f6e) 93

[ChangeSmartArtLayout operation](#section_0314d5a451a14822a69c737622550fc4) 96

[ChangeSmartArtStyle operation](#section_6e4e5c487c5a4b8db48ea087745a5954) 98

[ClearPlaceholder operation](#section_5ff53e5f457f45e393266784492b009d) 101

[DeleteComment operation](#section_4184a898085447779204fdac7996a9b2) 103

[DeleteSlide operation](#section_b241bb4b7b7b483ebb7a054366390e8e) 105

[details](#section_cd889cc322184522a43839d25739d984) 62

[DuplicateShape operation](#section_a49d3296514b4c88b7f6ac8e6f7a63ff) 107

[DuplicateSlide operation](#section_2401ce95223041958320e37d777f1ca2) 110

[EditComment operation](#section_be67943702ea4679be7be1ee6cbbfc1c) 112

[FlipShape operation](#section_07f23b80dc894262ba71f4f74c0ce1a2) 114

[GetCoauthUpdates operation](#section_d4f47e05fccb4abaada7c0d188af767f) 116

[GetEditPresInfo operation](#section_8242bab4baf84c21b6cf71c15f8b5ddd) 119

[GetEditPresInfoGetEditSlideById operation](#section_08afa577ea864025a2fd800fea6b357b) 121

[GetEditPresResources operation](#section_1f6ea0c698f04aada98d271b8dc5404b) 124

[GetEditSlide operation](#section_92cf91deeb9f4b7cb1e6882244940f1c) 126

[GetPresentationId operation](#section_ff8c5a0618624ce19d8e480d6e62552b) 128

[initialization](#section_648d7878e06047c9b7ee735513af8753) 63

[InsertClipart operation](#section_147b77b79a6140bc913a551db585296b) 130

[InsertShape operation](#section_beaa54d03dd24273bc6f41e3e38149e5) 132

[InsertSlide operation](#section_d35fc8f1a6ac447fa77175963e1a1de4) 135

[InsertSmartArt operation](#section_07133fdae41c46acae97d591f2c5e94a) 137

[local events](#section_bd640ea158cb4b4dad5559baff926829) 221

[LogULS operation](#section_da7ca7f837ab4c38a557db4808bfeb43) 139

[message processing](#section_8c83e61fbbf64a17868641b70133b4da) 63

[MoveComment operation](#section_9575b5edd34345cf9eb5ee82c73dbb8e) 141

[MoveShape operation](#section_c12be80c123b4e4a9d14101c8cfdb39e) 144

[MoveSlide operation](#section_8b034e0434724583acc70b5f829cd11d) 146

[PastePicture operation](#section_a9c7ff8c8de649658d1bc8ede8c2ddde) 148

[Print operation](#section_df5fcbfb7116475c8bc4070c226992dd) 150

[Redo operation](#section_cc7c2552b8344942810ec42f0f1b99be) 152

[RemoveShapeFill operation](#section_35349c4eebb0468386e25b3b81a22ad7) 154

[RemoveShapeOutline operation](#section_0cf36455be4348f3a31c54fc83e91753) 156

[ReorderAnimation operation](#section_f203e9a7c17d48d7b600d8ef64e8921b) 159

[ReplaceNotes operation](#section_593636cf0ee3480cad1af5622a7f2096) 161

[ReplaceText operation](#section_cb513c03bcae45cd9416f0e4f9fc007b) 163

[ResetPicture operation](#section_7f3548cec70d4bc5843a17cd2a1b7d3c) 165

[ResetSmartArt operation](#section_ff95bd3fec624cceb95549911814e07a) 168

[ResizeShape operation](#section_4d5c3b9f20994ba6ae096a4eb429f57c) 170

[ReverseSmartArt operation](#section_7c4aa4e39f0f48e493db0205bd470eca) 172

[RotateShape operation](#section_0b5f7c1c91444c169cc80fe5b82f3395) 175

[SaveAndClose operation](#section_acfd760856f34cd0bd2cfc7fb2ebc99e) 177

[sequencing rules](#section_8c83e61fbbf64a17868641b70133b4da) 63

[SetAnimation operation](#section_e4c6b1f9f1ba4545a5be8916ba56bdac) 179

[SetShapeAlignment operation](#section_a57e992d5b524e2d978bd7e6d98457d4) 182

[SetShapeBold operation](#section_2f5bd9ea3d2d493c91fb6fd22802daca) 185

[SetShapeBullet operation](#section_385d8728fc6d4d41a5d0394c319c5f06) 187

[SetShapeFontColor operation](#section_34940996d08e4b1288ad7e34c64e96ec) 189

[SetShapeFontName operation](#section_e5f36efc93b54922920ad1a2ce45415e) 191

[SetShapeFontSize operation](#section_6d9cf4712b024c8bbaf8a224bee49e00) 194

[SetShapeItalic operation](#section_bc8d97f8985149cfae164b7f0ed62560) 196

[SetShapeTextDirection operation](#section_19fa07d5b73f450ab5510cf9693c8fb8) 198

[SetShapeUnderline operation](#section_a0f0fabee8f94cd4ba37e627f27c4c4f) 201

[SetTransition operation](#section_922c25cad0e04bca85ae86d9e0e8285d) 203

[SetTransitionApplyAll operation](#section_00e522d82b6f4727950d50c312a6dff2) 206

[SetWordArt operation](#section_2b044e23364e4c0491f06905a18cb70c) 208

[ShapeFormatPainting operation](#section_4a4508840b1b416b860aead4f3330fe0) 210

[ShowHideSlide operation](#section_9b2e8fa49652403583e2862a7ba64d33) 213

[timer events](#section_02fbd43fa30f4ae592584f09b8534c8d) 221

[timers](#section_f8e36169574448458f7b14bd7af1e4a8) 63

[Undo operation](#section_88aae16b28cc4ddda1fa97326667682f) 215

[UngroupShape operation](#section_176bada9cea94d0fa2efd277e1a275ea) 217

[UpdateCanary operation](#section_c68064729f9e445ab9a01783206d2b14) 219

[ServiceError complex type](#section_23d35324d34746639b4ace010e24e580) 50

[ServiceErrorType simple type](#section_e125df52a9c841f89a80446fb632cc64) 60

[ServiceResult complex type](#section_7479118d288e4cc6a2c4cfc65dd33a91) 50

[Simple types](#section_d896eced0a64445a8157d89508a43aee) 54

[char](#section_17c30ad6538d4ecc977bf3c264428878) 54

[ClientActions](#section_692bbb3aee6c466781369f909b88b1f7) 55

[duration](#section_9cfa7a6e7ccf4ebcba497323a97b3979) 55

[ErrorCode](#section_cd646c013f98443a93f91ab0b43767d0) 56

[guid](#section_5ba264daaa54447c8a4a7af7f06280b3) 60

[ServiceErrorType](#section_e125df52a9c841f89a80446fb632cc64) 60

[SlideID complex type](#section_f8abaf101b2f4008bc760f05b42fc7d0) 51

[SlideIdList complex type](#section_98c6777246f64815afb9b577b73413ed) 51

[SlideUpdateInfo complex type](#section_22acac818f5a40f6ae65f26a44cc587c) 51

[SmartArtInfo complex type](#section_ce0ca9a9776349a78b40da1c55a90e50) 52

[Standards assignments](#section_97888a4897e8487b95a8967d0c8519f1) 25

[StyleGalleryItem complex type](#section_fc452ac273774489bccd8bdd040a2cb4) 52

Syntax

[messages - overview](#section_6cf46165776d46ae8ef771b6a9ff9b1d) 26

T

[Theme complex type](#section_a80c682d7a9b4531a3f9c2f2068ebd33) 52

[ThemeColor complex type](#section_b6e6c92cc8ed4e04828a2620cf242e40) 53

Timer events

[server](#section_02fbd43fa30f4ae592584f09b8534c8d) 221

Timers

[server](#section_f8e36169574448458f7b14bd7af1e4a8) 63

[Tracking changes](#section_ac2aefb5253145c48219583e1237202f) 295

[Transport](#section_1f501d8e70084d0f83659fc92d8110e4) 26

Types

[complex](#section_01b2413755ef44619ff0f1a8612dcb04) 27

[simple](#section_d896eced0a64445a8157d89508a43aee) 54

V

[Vendor-extensible fields](#section_4b58447fcd794a1b9b398078251ad7a2) 25

[Versioning](#section_e67dea552e67488c8f88387af6ee29b3) 24

[ViewElement complex type](#section_cafdb2341b284e04b83eddd62579097a) 53

W

[WSDL](#section_c5599d3e223d46d9bb46d67861f6c896) 233

X

[XML schema](#section_779d5b81f523470191b16dfd503e34ab) 260

[http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Interface.Shared Schema](#section_208a6cec5c5e4ff293278032226eeab6) 260

[http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Powerpoint.Pipe.Interface Schema](#section_6f24ea9b88524be8b26786ff6a454d9a) 261

[http://schemas.datacontract.org/2004/07/p Schema](#section_d0c3181d0e0642b8a01ba571f16ccc39) 262

[http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_db1adaca048d4287932668c4670d90a0) 270

[http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_8444ef7ec5224096b00a3a26ce75099d) 270

[http://schemas.microsoft.com/office/PowerPoint/Server/WebServices/PowerPointEditServerInternalService/ Schema](#section_43223e3f044d4368bf2304bead944057) 271