**[MS-PPTX]:**

**PowerPoint (.pptx) Extensions to the Office Open XML File Format**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/13/2009 | 0.1 | Major | Initial Availability |
| 8/28/2009 | 0.2 | Major | Updated and revised 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 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/27/2010 | 1.04 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 1.05 | Major | Significantly changed the technical content. |
| 12/17/2010 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/18/2011 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/10/2011 | 1.05 | None | No changes to the meaning, language, or formatting of the technical content. |
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| 4/11/2012 | 2.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 3.0 | Major | Significantly changed the technical content. |
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| 2/11/2013 | 3.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/30/2013 | 3.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/18/2013 | 3.2 | Minor | Clarified the meaning of the technical content. |
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| 9/29/2016 | 9.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/17/2016 | 9.0 | None | No changes to the meaning, language, or formatting of the technical content. |
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| 2/15/2022 | 19.2 | Minor | Clarified the meaning of the technical content. |
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# Introduction

The PowerPoint (.pptx) Extensions to the Office Open XML File Format specifies elements and attributes that extend the XML vocabulary for representing PresentationML documents described in the [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) specification. The new elements and attributes are presented using the extensibility mechanisms provided by the [ISO/IEC29500-1:2016] specification.

Sections 1.7 and 2 of this specification are normative. All other sections and examples in this specification are informative.

## Glossary

This document uses the following terms:

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

**Coordinated Universal Time (UTC)**: A high-precision atomic time standard that approximately tracks Universal Time (UT). It is the basis for legal, civil time all over the Earth. Time zones around the world are expressed as positive and negative offsets from UTC. In this role, it is also referred to as Zulu time (Z) and Greenwich Mean Time (GMT). In these specifications, all references to UTC refer to the time at UTC-0 (or GMT).

**Designer Service**: A service that provides design suggestions for a presentation.

**globally unique identifier (GUID)**: A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [[RFC4122]](https://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](https://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

**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.

**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.

**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.

**shape identifier**: An integer that corresponds to a shape object or an instantiation of a shape object.

**slide show**: A delivery of a sequence of presentation slides, typically to an audience.

**time node**: A record or parent node that stores the information that is necessary to cause a time- or action-based effect to occur. Each time node has a corresponding object to which an effect is applied. It can be used randomly, simultaneously, or sequentially, and it can be used to specify certain time-based effects between objects that are being animated. Effects include visual and media behaviors.

**Web Video Text Tracks Format (WebVTT)**: A format for displaying timed text tracks (such as subtitles or captions) using the <track> element. The primary purpose of WebVTT files is to add text overlays to a <video>. WebVTT is a text based format, which must be encoded using UTF-8.

**XML**: The Extensible Markup Language, as described in [[XML1.0]](https://go.microsoft.com/fwlink/?LinkId=90599).

**Zoom**: An object that links to a slide or section that shows a transition when navigating to the slide or section.

**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/IEC-29500-4] International Organization for Standardization, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 4: Transitional Migration Features", ISO/IEC 29500-4:2008, [http://www.iso.org/iso/iso\_catalogue/catalogue\_tc/catalogue\_detail.htm?csnumber=51462](https://go.microsoft.com/fwlink/?LinkId=150884)

[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)

[ISO/IEC29500-2:2012] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 2: Open Packaging Conventions", ISO/IEC 29500-2:2012, [http://www.iso.org/iso/home/store/catalogue\_ics/catalogue\_detail\_ics.htm?csnumber=61796](https://go.microsoft.com/fwlink/?LinkID=330448)

[ISO/IEC29500-3:2015] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 3: Markup Compatibility and Extensibility", [https://www.iso.org/standard/65533.html](https://go.microsoft.com/fwlink/?linkid=861154)

[ISO/IEC29500-4:2016] ISO/IEC, "Information technology -- Document description and processing languages -- Office Open XML File Formats -- Part 4: Transitional Migration Features", [https://www.iso.org/standard/71692.html](https://go.microsoft.com/fwlink/?linkid=861068)

[MS-DTYP] Microsoft Corporation, "[Windows Data Types](%5bMS-DTYP%5d.pdf#Section_cca2742956894a16b2b49325d93e4ba2)".

[MS-ODRAWXML] Microsoft Corporation, "[Office Drawing Extensions to Office Open XML Structure](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de)".

[MS-OWEXML] Microsoft Corporation, "[Office Web Extensibility Extensions to Office Open XML Structure Specification](%5bMS-OWEXML%5d.pdf#Section_a2cd741a4cca4b1aade4b2c443972afa)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, [https://www.rfc-editor.org/rfc/rfc2119.html](https://go.microsoft.com/fwlink/?LinkId=90317)

[RFC5234] Crocker, D., Ed., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008, [http://www.rfc-editor.org/rfc/rfc5234.txt](https://go.microsoft.com/fwlink/?LinkId=123096)

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

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, [https://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, [https://www.w3.org/TR/2001/REC-xmlschema-2-20010502/](https://go.microsoft.com/fwlink/?LinkId=90610)

### Informative References

None.

## Overview

This structure provides an extended [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) vocabulary for a PresentationML document. The extended elements and attributes allow the format to indicate further information about a document, or content and formatting of parts of the document beyond the elements and attributes described in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065). Because these elements and attributes are meant as extensions, their intent and usage varies.

The extensions support new functionality involving slide transitions (section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2)), slide animations (section [2.2.2](#Section_3dae7e98e8ea426598e041146b9eb838)), content parts (section [2.2.3](#Section_a05ae034990f44748c975c70bb0a9862)), media (section [2.2.4](#Section_a504076c0bb24aebb268f380b71a74d0)), sections (section [2.2.5](#Section_1f21a089944d410bbd474f5e692c2532)), [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b) (section [2.2.6](#Section_fc79996c7c154f4b80654f672dd70414)), images (section [2.2.7](#Section_3c206095ec1d44a8a21d77796c03d59e)), math (section [2.2.8](#Section_9a9c5ee578714b73a9b209f59aa4ff97)), change tracking (section [2.2.9](#Section_6c8bd1b8ffc14198ba1dd52828544d6a)), comments (section [2.2.10](#Section_f1ad49e19f7d404ba2956b02bedb7c36)), guides (section [2.2.11](#Section_8337099d6e28412ea45d4c9710931d70)), and charts (section [2.2.12](#Section_e32a99bd3b804be697dfad50ef6d2224)).

The extensions in this format are integrated into [ISO/IEC29500-1:2016] by means of the Markup Compatibility and Extensibility features as described in [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154). Specifically, the **Ignorable** attribute ([ISO/IEC29500-3:2015] section 10.1.1), the **AlternateContent** element ([ISO/IEC29500-3:2015] section 10.2.1), and application-defined extension elements are used to maintain compatibility with [ISO/IEC29500-1:2016] implementations when integrating the extensions from this format. Using these extensions as described in this document will result in a PresentationML document that is conformant to [ISO/IEC29500-1:2016].

## Relationship to Protocols and Other Structures

The structures described in this document are incorporated into PresentationML documents as described in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) using the Markup Compatibility and Extensibility features as described in [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154). The global elements described in this format appear as optional child elements of certain elements described in [ISO/IEC29500-1:2016] as described in section [2.3](#Section_6c8fa8193ae640e4af4c83abfd44b381). The global attributes described in this format appear as optional attributes on certain elements described in [ISO/IEC29500-1:2016] as described in section [2.4](#Section_b0b9a1acb87146d889c969e75ea316e5). Some of the elements, attributes, simple types and complex types here also refer to complex or simple types described in [[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068).

## Applicability Statement

This document specifies a set of structures to extend the [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) vocabulary of [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) PresentationML documents. The extensions specified in this document allow for expressing additional document content and properties, and are not applicable as a stand-alone file format. Each structure specified in this document is integrated with [ISO/IEC29500-1:2016] PresentationML documents in a particular way, as specified in the description of that structure. All structures are integrated into PresentationML documents in such a way that maintains compatibility with [ISO/IEC29500-1:2016] implementations.

The extensions specified in this document do not require any other extensions to be used, and do not prohibit any other extensions from being used in the same PresentationML document.

## Versioning and Localization

None.

## Vendor-Extensible Fields

None.

# Structures

## Part Enumerations

### Media Part

The following table specifies a new Media part that can be stored in a PresentationML document.

| Part components | Value |
| --- | --- |
| Content types | Any supported audio or video type. See [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) sections 15.2.2 and 15.2.17 for a list of possible content types. |
| Source relationship | http://schemas.microsoft.com/office/2007/relationships/media |

An instance of a Media part specifies the binary data of a media file containing audio information, video information, or both audio and video information.

A Media part MUST be the target of an explicit relationship from a Slide part ([ISO/IEC29500-1:2016] section 13.3.8), a Slide Layout part ([ISO/IEC29500-1:2016] section 13.3.9), or a Slide Master part ([ISO/IEC29500-1:2016] section 13.3.10).

A Media part is not stored as [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85); instead, it involves a relationship target that is a media clip.

A Media part can be located within or external to the package containing the relationships part; as such, the value of the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) can be either "Internal" or "External".

A Media part MUST NOT have implicit or explicit relationships to other parts specified in [ISO/IEC29500-1:2016] or this document.

### Revision Information Part

The following table specifies a new Revision Information part that can be stored in a PresentationML document.

| Part Components | Value |
| --- | --- |
| Content type | application/vnd.ms-powerpoint.revisioninfo+xml |
| Root namespace | http://schemas.microsoft.com/office/powerpoint/2015/10/main |
| Source relationship | http://schemas.microsoft.com/office/2015/10/relationships/revisionInfo |

An instance of a Revision Information part specifies a set of revisions included by a PresentationML document.

A package MUST contain zero or one Revision Information part. If it exists, that part MUST be the target of an implicit relationship from the Presentation part ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 13.3.6).

The root element for a part of this content type MUST be **revInfo** (section [2.7.1.1](#Section_2f9b9e78b54442858bcdf797766e3aea)).

A Revision Information part MUST be located within the package containing the relationships part (expressed syntactically, the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) shall be Internal).

A Revision Information part MUST NOT have implicit or explicit relationships to other parts specified in [ISO/IEC29500-1:2016] or this document.

### Track Part

The following table specifies a new Track part that can be stored in a PresentationML document.

| Part Components | Value |
| --- | --- |
| Content type | text/vtt |
| Source relationship | http://schemas.microsoft.com/office/2017/04/relationships/track |

An instance of a Track part specifies the text data of a [**Web Video Text Tracks Format (WebVTT)**](#gt_e4b6ceec-9256-4fdd-96ff-be6dc8643574) file.

A Track part MUST be the target of an explicit relationship from a Slide part ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 13.3.8), a Slide Layout part ([ISO/IEC29500-1:2016] section 13.3.9), or a Slide Master part ([ISO/IEC29500-1:2016] section 13.3.10).

A Tracks part can be located within or external to the package containing the relationships part; as such, the value of the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) can be either "Internal" or "External".

A Tracks part MUST NOT have implicit or explicit relationships to other parts specified in [ISO/IEC29500-1:2016] or this document.

### Changes Information Part

The following table specifies a new Changes Information part that can be stored in a PresentationML document.

| Part Components | Value |
| --- | --- |
| Content type | application/vnd.ms-powerpoint.changesinfo+xml |
| Root namespace | http://schemas.microsoft.com/office/powerpoint/2013/main/command |
| Source relationship | http://schemas.microsoft.com/office/2016/11/relationships/changesInfo |

An instance of a Changes Information part specifies a set of document edits included by a PresentationML document.

A package MUST contain zero or one Changes Information part. If it exists, that part MUST be the target of an implicit relationship from the Presentation part ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 13.3.6).

The root element for a part of this content type MUST be **chgInfo** (section [2.12.1.1](#Section_6eb2db2955b94a908e6167c644cc2398)).

A Changes Information part MUST be located within the package containing the relationships part (expressed syntactically, the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) MUST be Internal.

A Changes Information part MUST NOT have implicit or explicit relationships to other parts specified in [ISO/IEC29500-1:2016] or this document.

### Comment Part

*Referenced by:* [*commentRel*](#Section_c0f70c68e456452bb6fe6ff6bc36bd90)

The following table specifies a new Comment part that can be stored in a PresentationML document.

| Part Components | Value |
| --- | --- |
| Content type | application/vnd.ms-powerpoint.comments+xml |
| Root namespace | http://schemas.microsoft.com/office/powerpoint/2018/8/main |
| Source relationship | http://schemas.microsoft.com/office/2018/10/relationships/comments |

An instance of a Comment part specifies a set of comments included by a PresentationML document.

A Comment part MUST be the target of an explicit relationship from the Slide part ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 13.3.8).

The root element for a part of this content type MUST be **cmLst** (section [2.16.1.2](#Section_653f8a0b01d4446394d42c4fc2fe6bb2)).

A Comment part MUST be located within the package containing the relationships part (expressed syntactically, the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) MUST be Internal.

### Author Part

The following table specifies a new Author part that can be stored in a PresentationML document.

| Part Components | Value |
| --- | --- |
| Content type | application/vnd.ms-powerpoint.authors+xml |
| Root namespace | http://schemas.microsoft.com/office/powerpoint/2018/8/main |
| Source relationship | http://schemas.microsoft.com/office/2018/10/relationships/authors |

An instance of an Author part specifies a set of authors included by a PresentationML document.

A package **MUST** contain zero or one Author part. If it exists, that part **MUST** be the target of an implicit relationship from the Presentation part ([ISO/IEC29500-1:2016] section 13.3.6).

The root element for a part of this content type MUST be **authorLst** (section [2.16.1.1](#Section_8df7f6eda77c4be9968233a696291737)).

An Author part MUST be located within the package containing the relationships part (expressed syntactically, the **TargetMode** attribute of the **Relationship** element ([[ISO/IEC29500-2:2012]](https://go.microsoft.com/fwlink/?LinkID=330448) section 9.3.2) MUST be Internal.

An Author part MUST NOT have implicit or explicit relationships to other parts specified in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) or this document

## Extensions

This section specifies the elements from [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) that are extended by this format. Either the **Ignorable** attribute ([[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.1), **AlternateContent** element ([ISO/IEC29500-3:2015] section 10.2.1), or the **extLst** element ([ISO/IEC29500-1:2016] section 19.2.1.12) MUST be used to maintain compatibility with [ISO/IEC29500-1:2016] implementations.

### Slide Transition Extensions

The **sld** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.38), the **sldLayout** element ([ISO/IEC29500-1:2016] section 19.3.1.39), and the **sldMaster** element ([ISO/IEC29500-1:2016] section 19.3.1.42) are extended by the addition of an **AlternateContent** child element ([[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 7.5), whose structure is specified in the following table.

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2010/main | **transition** ([ISO/IEC29500-1:2016] section 19.3.1.50) |
| Choice:  http://schemas.microsoft.com/office/powerpoint/2012/main | **transition** ([ISO/IEC29500-1:2016] section 19.3.1.50) |
| Choice:  http://schemas.microsoft.com/office/powerpoint/2015/09/main | **transition** ([ISO/IEC29500-1:2016] section 19.3.1.50) |
| Fallback | **transition** ([ISO/IEC29500-1:2016] section 19.3.1.50) |

The **transition** element ([ISO/IEC29500-1:2016] section 19.3.1.50) is extended by the addition of the following child elements to the **xsd:choice** content model of the **CT\_SlideTransition** complex type ([ISO/IEC29500-1:2016] section A.3):

* **vortex** (section [2.3.1.30](#Section_b12536eae4454d658733be64b70d121f))
* **switch** (section [2.3.1.29](#Section_3da05579946146e2a1c732fe2092bba6))
* **flip** (section [2.3.1.11](#Section_02b192a9284c40e5aa3ca89c5f6f66cc))
* **ripple** (section [2.3.1.24](#Section_c1c9b4f579c04e2f8b59db2b4cee9f00))
* **honeycomb** (section [2.3.1.15](#Section_e32665f497154c94a28528bff8ef8684))
* **prism** (section [2.3.1.22](#Section_52f75e750b724e82ab576474229e751c))
* **doors** (section [2.3.1.7](#Section_71791754bdce43d18bf4eaeccc85d4aa))
* **window** (section [2.3.1.33](#Section_de20045ad22048b2a3975d37c916d662))
* **ferris** (section [2.3.1.9](#Section_e326a2fa25bd43a490f2f0356d5f6405))
* **gallery** (section [2.3.1.13](#Section_7e9eb7c83945419bb3787672b6133425))
* **conveyor** (section [2.3.1.3](#Section_e0aeee44571e49c8a753e7a8dd2026bb))
* **pan** (section [2.3.1.21](#Section_801f9e80bbcc414581d3fee8c75a0f1e))
* **glitter** (section [2.3.1.14](#Section_c78988eeb178452392176d18df30f674))
* **warp** (section [2.3.1.31](#Section_a3a8b0c3573b403399c46e535ee759f4))
* **flythrough** (section [2.3.1.12](#Section_71a951a17d6d45779b032fb84632deb2))
* **flash** (section [2.3.1.10](#Section_67b6b598da79400893f051c45e520057))
* **shred** (section [2.3.1.28](#Section_f431205506a24e4b81cb9aae921703ed))
* **reveal** (section [2.3.1.23](#Section_830962fcea324de9b0c5ba5e2a8a9bb3))
* **wheelReverse** (section [2.3.1.32](#Section_762237347aa74053b666acd5f73d1d9a))
* **morph** (section [2.6.1.1](#Section_68d26d78f7f547ab835d4e6c82ff39f0))
* **prstTrans** (section [2.4.1.5](#Section_e421e750ae5846c19c97dae93f6574e3))

The **transition** element ([ISO/IEC29500-1:2016] section 19.3.1.50) is further extended by the addition of the following attribute to the **CT\_SlideTransition** complex type ([ISO/IEC29500-1:2016] section A.3): **dur** (section [2.3.2.3](#Section_9032bdb2b273470b8ac4c98a8c944494)).

### Animation Info Extensions

The **sld** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.38), the **sldLayout** element ([ISO/IEC29500-1:2016] section 19.3.1.39), and the **sldMaster** element ([ISO/IEC29500-1:2016] section 19.3.1.42) are extended by the addition of an **AlternateContent** child element ([[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.2.1), whose structure is specified in the following table.

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2010/main | **timing** ([ISO/IEC29500-1:2016] section 19.3.1.48) |
| Fallback | **timing** ([ISO/IEC29500-1:2016] section 19.3.1.48) |

The **tgtEl** descendantelement ([ISO/IEC29500-1:2016] section 19.5.81) of the **timing** element is extended by the addition of the following child elements to the **xsd:choice** content model of the **CT\_TLTimeTargetElement** complex type ([ISO/IEC29500-1:2016] section A.3): **bmkTgt** (section [2.3.1.1](#Section_7a7c9c0b9ceb4cac909fbd57f052c863)).

The **cTn** descendantelement ([ISO/IEC29500-1:2016] section 19.5.33) of the **timing** element is extended by the addition of the following attribute to the **CT\_TLCommonTimeNodeData** complex type ([ISO/IEC29500-1:2016] section A.3): **presetBounceEnd** (section [2.3.2.4](#Section_55d9bdbe840f4da480ede3248518ff84)).

The **anim** descendantelement ([ISO/IEC29500-1:2016] section 19.5.1) of the **timing** element is extended by the addition of the following attribute to the **CT\_TLAnimateBehavior** complex type ([ISO/IEC29500-1:2016] section A.3): **bounceEnd** (section [2.3.2.1](#Section_1a4ace6fc76241f2870750220fc6cd9c)).

The **animMotion** descendantelement ([ISO/IEC29500-1:2016] section 19.5.4) of the **timing** element is extended by the addition of the following attribute to the **CT\_TLAnimateMotionBehavior** complex type ([ISO/IEC29500-1:2016] section A.3): **bounceEnd** (section 2.3.2.1).

The **animRot** descendantelement ([ISO/IEC29500-1:2016] section 19.5.5) of the **timing** element is extended by the addition of the following attribute to the **CT\_TLAnimateRotationBehavior** complex type ([ISO/IEC29500-1:2016] section A.3): **bounceEnd** (section 2.3.2.1).

The **animScale** descendantelement ([ISO/IEC29500-1:2016] section 19.5.6) of the **timing** element is extended by the addition of the following attribute to the **CT\_TLAnimateScaleBehavior** complex type ([ISO/IEC29500-1:2016] section A.3): **bounceEnd** (section 2.3.2.1).

### Content Part Extensions

The **grpSp** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.22) is extended by the addition of an **AlternateContent** child element ([[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.2.1), whose structure is specified in the following table.

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2010/main | **contentPart** ([ISO/IEC29500-1:2016] section 19.3.1.14) |
| Fallback | **sp** ([ISO/IEC29500-1:2016] section 19.3.1.43) |

The **contentPart** element ([ISO/IEC29500-1:2016] section 19.3.1.14) is extended by the addition of the following child elements to a new **xsd:sequence** content model of the **CT\_Rel** complex type ([ISO/IEC29500-1:2016] section A.3):

* **nvContentPartPr** (section [2.3.1.20](#Section_160202ae324149c8aad23f8e5e043602))
* **xfrm** (section [2.3.1.34](#Section_5ec5c2162cbb417ab7b7b367b1ec06c2))
* **extLst** (section [2.3.1.8](#Section_1097f03f66b94fcb8d2248004fbfb9d3)).

The **contentPart** element ([ISO/IEC29500-1:2016] section 19.3.1.14) is further extended by the addition of the following attribute to the **CT\_Rel** complex type ([ISO/IEC29500-1:2016] section A.3): **bwMode** (section [2.3.2.2](#Section_057a6a2bbcef42578cefaf99a2eca7ea)).

#### Ink Extensions

The spTree element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.45) and the grpSp element ([ISO/IEC29500-1:2016] section 19.3.1.22) are extended by the addition of an AlternateContent child element[<1>](#Appendix_A_1" \o "Product behavior note 1) whose structure is specified in the following table.

| AlternateContent components | Child element |
| --- | --- |
| Choice:  http://schemas.microsoft.com/office/powerpoint/2010/main  http://schemas.microsoft.com/office/powerpoint/2014/inkAction ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.21) | contentPart ([ISO/IEC29500-1:2016]  section 19.3.1.14) |
| Fallback | pic ([ISO/IEC29500-1:2016] section  19.3.1.37) |

### Media Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {DAA4B4D4-6D71-4841-9C94-3DE7FCFB9230} | **media** (section [2.3.1.18](#Section_3d88e290a4a94db29457b04687c06cf5)) |

The **extLst** child element of the **showPr** element ([ISO/IEC29500-1:2016] section 19.2.1.30) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {2FDB2607-1784-4EEB-B798-7EB5836EED8A} | **showMediaCtrls** (section [2.3.1.27](#Section_39be05f1f23e4b20a825e710ca21e78c)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

#### TracksInfo Extensions

The **extLst** child element of the **media** element (section [2.3.1.18](#Section_3d88e290a4a94db29457b04687c06cf5)) is extended by the addition of a new **ext** child element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.11), whose structure is specified in the following table:

| Ext uri | Child element |
| --- | --- |
| {3AFAAA56-56D3-431D-BCD4-E75A35582382} | **tracksInfo** (section [2.13.1.1](#Section_b115e940574e4149981fff44674b4d90)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Section Extensions

The **extLst** child element of the **presentation** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.26) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table:

| Ext uri | Child element |
| --- | --- |
| {521415D9-36F7-43E2-AB2F-B90AF26B5E84} | **sectionLst** (section [2.3.1.25](#Section_db88eca9e5d04fc6b1c95387557998bd)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Slide Show Extensions

The **extLst** child element of the **showPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.30) is extended by the addition of new **ext** child elements ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structures are specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {F99C55AA-B7CB-42B0-86F8-08522FDF87E8} | **browseMode** (section [2.3.1.2](#Section_f500c032002b44b884fcada145d84bf3)) |
| {EC167BDD-8182-4AB7-AECC-EB403E3ABB37} | **laserClr** (section [2.3.1.16](#Section_0210cac3a5ca49959a93184eba887711)) |

The **extLst** child element of the **sld** element ([ISO/IEC29500-1:2016] section 19.3.1.38) is extended by the addition of new **ext** child elements ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structures are specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {3A86A75C-4F4B-4683-9AE1-C65F6400EC91} | **laserTraceLst** (section [2.3.1.17](#Section_a0466c2453384edc920a3d095aa8738a)) |
| {E180D4A7-C9FB-4DFB-919C-405C955672EB} | **showEvtLst** (section [2.3.1.26](#Section_04f39c957a484f98bb211f58fcd65e9d)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Image Extensions

The **extLst** child element of the **presentationPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.27) is extended by the addition of new **ext** child elements ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structures are specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {E76CE94A-603C-4142-B9EB-6D1370010A27} | **discardImageEditData** (section [2.3.1.6](#Section_ec51c8866e0f4fa183a6a33ca3cea0aa)) |
| {D31A062A-798A-4329-ABDD-BBA856620510} | **defaultImageDpi** (section [2.3.1.5](#Section_28952ea67e824ce787a9d76f9ed0fa91)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Math Extensions

The **extLst** child element of the **presentationPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.27) is extended by the addition of new **ext** child elements ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structures are specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {4599F94E-CEE6-441E-89CC-EB005ECD8F06} | **a14:m** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.3.1.11) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Change Tracking Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {D42A27DB-BD31-4B8C-83A1-F6EECF244321} | **modId** (section [2.3.1.19](#Section_c7f10e508b6f42e09926e1d15f6a4861)) |

The **extLst** child element of the **cSld** element ([ISO/IEC29500-1:2016] section 19.3.1.16) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {BB962C8B-B14F-4D97-AF65-F5344CB8AC3E} | **creationId** (section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Comment Extensions

The **extLst** child element of the **cmAuthor** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.4.2) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<2>](#Appendix_A_2" \o "Product behavior note 2)

| Ext uri | Child element |
| --- | --- |
| {19B8F6BF-5375-455C-9EA6-DF929625EA0E} | **presenceInfo** (section [2.4.1.4](#Section_3afcb41c684947508e2d7db0e2375f32)) |

The **extLst** child element of the **cm** element ([ISO/IEC29500-1:2016] section 19.4.1) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<3>](#Appendix_A_3" \o "Product behavior note 3)

| Ext uri | Child element |
| --- | --- |
| {C676402C-5697-4E1C-873F-D02D1690AC5C} | **threadingInfo** (section [2.4.1.7](#Section_c9f006ddb1664699a3e6074ccbe441ca)) |

The **extLst** child element of the **sld** element ([ISO/IEC29500-1:2016] section 19.3.1.38) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<4>](#Appendix_A_4" \o "Product behavior note 4)

| Ext uri | Child element |
| --- | --- |
| {6950BFC3-D8DA-4A85-94F7-54DA5524770B} | **commentRel** (section [2.16.1.3](#Section_c0f70c68e456452bb6fe6ff6bc36bd90)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Guide Extensions

The **extLst** child element of the **presentation** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.26) is extended by the addition of new **ext** child elements ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structures are specified in the following table.[<5>](#Appendix_A_5" \o "Product behavior note 5)

| Ext uri | Child element |
| --- | --- |
| {EFAFB233-063F-42B5-8137-9DF3F51BA10A} | **sldGuideLst** (section [2.4.1.6](#Section_2b8e62b7e8e44795a7a6394c2295edaf)) |
| {2D200454-40CA-4A62-9FC3-DE9A4176ACB9} | **notesGuideLst** (section [2.4.1.3](#Section_6135012d23ec4278b5d20fa61b315531)) |

The **extLst** child element of the **sldLayout** element ([ISO/IEC29500-1:2016] section 19.3.1.39) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<6>](#Appendix_A_6" \o "Product behavior note 6)

| Ext uri | Child element |
| --- | --- |
| {DCECCB84-F9BA-43D5-87BE-67443E8EF086} | **sldGuideLst** (section 2.4.1.6) |

The **extLst** child element of the **sldMaster** element ([ISO/IEC29500-1:2016] section 19.3.1.42) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<7>](#Appendix_A_7" \o "Product behavior note 7)

| Ext uri | Child element |
| --- | --- |
| {27BBF7A9-308A-43DC-89C8-2F10F3537804} | **sldGuideLst** (section 2.4.1.6) |

The **extLst** child element of the **handoutMaster** element ([ISO/IEC29500-1:2016] section 19.3.1.24) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<8>](#Appendix_A_8" \o "Product behavior note 8)

| Ext uri | Child element |
| --- | --- |
| {56416CCD-93CA-4268-BC5B-53C4BB910035} | **sldGuideLst** (section 2.4.1.6) |

The **extLst** child element of the **notesMaster** element ([ISO/IEC29500-1:2016] section 19.3.1.27) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<9>](#Appendix_A_9" \o "Product behavior note 9)

| Ext uri | Child element |
| --- | --- |
| {620B2872-D7B9-4A21-9093-7833F8D536E1} | **sldGuideLst** (section 2.4.1.6) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2.

### Charting Extensions

The **extLst** child element of the **presentationPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.27) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<10>](#Appendix_A_10" \o "Product behavior note 10)

| Ext uri | Child element |
| --- | --- |
| {FD5EFAAD-0ECE-453E-9831-46B23BE46B34} | **chartTrackingRefBased** (section [2.4.1.1](#Section_6c4aae64cf03408b9e5001666e6352f3)) |

For more information about how extension lists are used, see [[ISO/IEC29500-3:2015]](https://go.microsoft.com/fwlink/?linkid=861154) section 10.1.2

### Office App Extensions

The **spTree** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.45) and the **grpSp** element ([ISO/IEC29500-1:2016] section 19.3.1.22) are extended by the addition of an **AlternateContent** child element whose structure is specified in the following table.

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/webextensions/webextension/2010/11  http://schemas.microsoft.com/office/powerpoint/2013/contentapp | **webextensionref (**[[MS-OWEXML]](%5bMS-OWEXML%5d.pdf#Section_a2cd741a4cca4b1aade4b2c443972afa) section 2.1.3) |
| Fallback | **pic** ([ISO/IEC29500-1:2016] section 19.3.1.37) |

### Narration Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element[<11>](#Appendix_A_11" \o "Product behavior note 11) [(](https://go.microsoft.com/fwlink/?LinkId=325242)[ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {42D2F446-02D8-4167-A562-619A0277C38B} | **isNarration** (section [2.4.1.2](#Section_4ae507ab2b3d41b094b2f59a1626023e)) |

### Zoom Extensions

The **spTree** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.45) and the **grpSp** element ([ISO/IEC29500-1:2016] section 19.3.1.22) are extended by the addition of an **AlternateContent** child element whose structure is specified in the following tables.

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom | **sectionZm** (section [2.9.1.1](#Section_40214a8b104443fca9d53f8635ea5bc2)) |
| Fallback | **pic** ([ISO/IEC29500-1:2016] section 19.3.1.37) |

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2016/slidezoom | **sldZm** (section [2.10.1.1](#Section_623f4c8ecd0a4c188c9df7be9cfbfd72)) |
| Fallback | **pic** ([ISO/IEC29500-1:2016] section 19.3.1.37) |

| AlternateContent components | Child element |
| --- | --- |
| Choice: http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom | **summaryZm** (section [2.11.1.1](#Section_68d01d06c23447b3b191af013beb1a19)) |
| Fallback | **grpSp** ([ISO/IEC29500-1:2016] section 19.3.1.22) |

### View Mode Extensions

The **extLst** child element of the **presentationPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.27) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<12>](#Appendix_A_12" \o "Product behavior note 12)

| Ext uri | Child element |
| --- | --- |
| {1BD7E111-0CB8-44D6-8891-C1BB2F81B7CC} | **readonlyRecommended** (section [2.14.1.1](#Section_0891d9737290493a9cb29aa20ccf73dc)) |

### Design Element Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element[<13>](#Appendix_A_13" \o "Product behavior note 13) [(](http://go.microsoft.com/fwlink/?LinkId=325242)[ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.

| Ext uri | Child element |
| --- | --- |
| {386F3935-93C4-4BCD-93E2-E3B085C9AB24} | **designElem** (section [2.5.3.1](#Section_208645d6756f4479a3d2249ebd379d28)) |

### Classification Element Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<14>](#Appendix_A_14" \o "Product behavior note 14)

| Ext uri | Child element |
| --- | --- |
| {1162E1C5-73C7-4A58-AE30-91384D911F3F} | **classification** (section [2.15.1.1](#Section_6c6752260e114d0da8190f08d12d2059)) |

### Designer Properties Extensions

The **extLst** child element of the **nvPr** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.33) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<15>](#Appendix_A_15" \o "Product behavior note 15)

| Ext uri | Child element |
| --- | --- |
| {E7BDC344-281C-4309-B0C6-D0EE65EED2A8} | **designPr** (section [2.17.1.1](#Section_4f40bd5c5ad24657b4f0d67a082cb634)) |

### Designer Tags Extensions

The **extLst** child element of the **sldId** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.33) is extended by the addition of a new **ext** child element ([ISO/IEC29500-1:2016] section 19.2.1.11), whose structure is specified in the following table.[<16>](#Appendix_A_16" \o "Product behavior note 16)

| Ext uri | Child element |
| --- | --- |
| {E3EDB536-0D56-4F60-86BA-61A60CA02DAB} | **designTagLst** (section [2.17.1.2](#Section_d3778e8e03b74f73b772fa515688159a)) |

## http://schemas.microsoft.com/office/powerpoint/2010/main

### Elements

#### bmkTgt

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_MediaBookmarkTarget** element (section [2.3.3.13](#Section_f27090527a54446e94c3fa0bced8c775)) that specifies a media bookmark that triggers an animation. See section [2.2.2](#Section_3dae7e98e8ea426598e041146b9eb838) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="bmkTgt" type="CT\_MediaBookmarkTarget"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### browseMode

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_BrowseMode** element (section [2.3.3.1](#Section_aea110ba98b34216971bb8b996375f0b)) that specifies the status bar visibility when [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b) is in browse mode. See section [2.2.6](#Section_fc79996c7c154f4b80654f672dd70414) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="browseMode" type="CT\_BrowseMode"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### conveyor

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LeftRightDirectionTransition** element (section [2.3.3.10](#Section_56ea32ef98ad4bfbb57220a99c86c4d8)) that specifies a conveyor transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "l" (left):



Figure 1: Sample conveyor transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="conveyor" type="CT\_LeftRightDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### creationId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_RandomId** element (section [2.3.3.21](#Section_853d9ddb5e614bc78e073e3d05f27e2c)) that specifies an identifier that is generated when a slide is created. See section [2.2.9](#Section_6c8bd1b8ffc14198ba1dd52828544d6a) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="creationId" type="CT\_RandomId"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### defaultImageDpi

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_DefaultImageDpi** element (section [2.3.3.3](#Section_5099194613ca4ee48efb20d8f4770a17)) that specifies the resolution, in dots per inch (dpi), to use when saving images in the document. This element value is used only when the **autoCompressPictures** attribute ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.2.1.26) is set to **true**, and the **useLocalDpi** element ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.3.1.13) is set to **false**. See section [2.2.7](#Section_3c206095ec1d44a8a21d77796c03d59e) for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="defaultImageDpi" type="CT\_DefaultImageDpi"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### discardImageEditData

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_DiscardImageEditData** element (section [2.3.3.4](#Section_adc484a16e66459ba53b74ff23ad806c)) that specifies that all **imgProps** elements ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.3.1.9) and cropped out areas of images are not to be saved. See section [2.2.7](#Section_3c206095ec1d44a8a21d77796c03d59e) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="discardImageEditData" type="CT\_DiscardImageEditData"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### doors

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_OrientationTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a doors transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "vert" (vertical):



Figure 2: Sample doors transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="doors" type="p:CT\_OrientationTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### extLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_ExtensionListModify** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the extension list with modification ability. All future extensions to the **contentPart** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.14) will be stored within this extension list. See section [2.2.3](#Section_a05ae034990f44748c975c70bb0a9862) for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="extLst" type="p:CT\_ExtensionListModify"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ferris

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LeftRightDirectionTransition** element (section [2.3.3.10](#Section_56ea32ef98ad4bfbb57220a99c86c4d8)) that specifies a ferris transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "l" (left):



Figure 3: Sample ferris transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="ferris" type="CT\_LeftRightDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### flash

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_Empty** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a flash transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample:



Figure 4: Sample flash transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="flash" type="p:CT\_Empty"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### flip

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LeftRightDirectionTransition** element (section [2.3.3.10](#Section_56ea32ef98ad4bfbb57220a99c86c4d8)) that specifies a flip transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "r" (right).



Figure 5: Sample flip transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="flip" type="CT\_LeftRightDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### flythrough

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_FlyThroughTransition** element (section [2.3.3.5](#Section_9cb735d9285e41ea9303c0ed13bd9931)) that specifies a fly through transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "in", **hasBounce** equal to **false**:



Figure 6: Sample flythrough transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="flythrough" type="CT\_FlyThroughTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### gallery

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LeftRightDirectionTransition** element (section [2.3.3.10](#Section_56ea32ef98ad4bfbb57220a99c86c4d8)) that specifies a gallery transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "l" (left).



Figure 7: Sample gallery transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="gallery" type="CT\_LeftRightDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### glitter

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_GlitterTransition** element (section [2.3.3.6](#Section_93a73ee56799478f8c1f3db23726e10e)) that specifies a glitter transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "l" (left), **pattern** equal to "diamond":



Figure 8: Sample glitter transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="glitter" type="CT\_GlitterTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### honeycomb

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_Empty** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a honeycomb transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample:



Figure 9: Sample honeycomb transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="honeycomb" type="p:CT\_Empty"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### laserClr

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **a:CT\_Color** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the color to be used to render the laser dot. See section [2.2.6](#Section_fc79996c7c154f4b80654f672dd70414) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="laserClr" type="a:CT\_Color"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### laserTraceLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LaserTraceList** element (section [2.3.3.8](#Section_b35b724f590b480ab5b772e97735c2b2)) that specifies a list of laser traces on the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192). See section [2.2.6](#Section_fc79996c7c154f4b80654f672dd70414) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="laserTraceLst" type="CT\_LaserTraceList"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### media

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_Media** element (section [2.3.3.14](#Section_f8b7e1cb976e4f388139f9e5ffa826e8)) that specifies a media object. See section [2.2.4](#Section_a504076c0bb24aebb268f380b71a74d0) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="media" type="CT\_Media"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### modId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_RandomId** element (section [2.3.3.21](#Section_853d9ddb5e614bc78e073e3d05f27e2c)) that specifies an identifier that is updated each time a [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) is modified. Each identifier specified MUST be unique to the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) that contains it. See section [2.2.9](#Section_6c8bd1b8ffc14198ba1dd52828544d6a) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="modId" type="CT\_RandomId"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### nvContentPartPr

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_ContentPartNonVisual** element (section [2.3.3.2](#Section_bda997a4aa4142aa9c09512c7e4fc5bc)) that specifies the non-visual drawing properties for a **contentPart** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.14). These non-visual properties are properties that the generating application uses when rendering and editing the content part. See section [2.2.3](#Section_a05ae034990f44748c975c70bb0a9862) for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="nvContentPartPr" type="CT\_ContentPartNonVisual"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### pan

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_SideDirectionTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a pan transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "u" (up).



Figure 10: Sample pan transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="pan" type="p:CT\_SideDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### prism

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_PrismTransition** element (section [2.3.3.20](#Section_79f003b6811b4225a0f630a3b58d663d)) that specifies a prism transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "l" (left), **isContent** equal to **false**, **isInverted** equal to **false**:



Figure 11: Sample prism transition 1

The following figure is a sample with **dir** equal to "r" (right), **isContent** equal to **false**, **isInverted** equal to **true**:



Figure 12: Sample prism transition 2

The following figure is a sample with **dir** equal to "u" (up), **isContent** equal to **true**, **isInverted** equal to **false**:



Figure 13: Sample prism transition 3

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="prism" type="CT\_PrismTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### reveal

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_RevealTransition** element (section [2.3.3.22](#Section_eb6d865240724c1f957f548ee3ab1584)) that specifies a reveal transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **thruBlk** equal to **true**, **dir** equal to "l" (left):



Figure 14: Sample reveal transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="reveal" type="CT\_RevealTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ripple

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_RippleTransition** element (section [2.3.3.23](#Section_053cdddd5f304beda1ff67e7b5759dd3)) that specifies a ripple transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "center".



Figure 15: Sample ripple transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="ripple" type="CT\_RippleTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sectionLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_SectionList** element (section [2.3.3.25](#Section_b499c39b7c504a5888e6f86e6046be50)) that specifies section properties for the document. See section [2.2.5](#Section_1f21a089944d410bbd474f5e692c2532) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sectionLst" type="CT\_SectionList"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### showEvtLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_ShowEventRecordList** element (section [2.3.3.28](#Section_c2e6338edcee4f62b70bfb7410ed8c03)) that specifies a list of [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b) events that occur during slide show. See section [2.2.6](#Section_fc79996c7c154f4b80654f672dd70414) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="showEvtLst" type="CT\_ShowEventRecordList"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### showMediaCtrls

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_ShowMediaControls** element (section [2.3.3.29](#Section_c1300e6e2f43493c930a1b2f99cde7f3)) that specifies the visibility of media user interface controls during [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b). See section [2.2.4](#Section_a504076c0bb24aebb268f380b71a74d0) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="showMediaCtrls" type="CT\_ShowMediaControls"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### shred

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_ShredTransition** element (section [2.3.3.30](#Section_c579b0ad29fc450ebea918d8190b0b44)) that specifies a shred transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **pattern** equal to "strip", **dir** equal to "in":



Figure 16: Sample shred transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="shred" type="CT\_ShredTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### switch

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **CT\_LeftRightDirectionTransition** element (section [2.3.3.10](#Section_56ea32ef98ad4bfbb57220a99c86c4d8)) that specifies a switch transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "r" (right):



Figure 17: Sample switch transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="switch" type="CT\_LeftRightDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### vortex

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_SideDirectionTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a vortex transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **dir** equal to "r" (right):

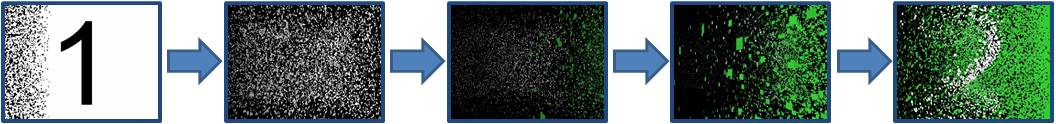


Figure 18: Sample vortex transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="vortex" type="p:CT\_SideDirectionTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### warp

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_InOutTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a warp transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "in":



Figure 19: Sample warp transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="warp" type="p:CT\_InOutTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### wheelReverse

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_WheelTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a reverse wheel transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with **spokes** equal to 1.



Figure 20: Sample wheelReverse transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="wheelReverse" type="p:CT\_WheelTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### window

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

A **p:CT\_OrientationTransition** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies a window transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following is a sample with **dir** equal to "vert" (vertical):



Figure 21: Sample window transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="window" type="p:CT\_OrientationTransition"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### xfrm

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **a:CT\_Transform2D** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the 2-D transform for a content part. See section [2.2.3](#Section_a05ae034990f44748c975c70bb0a9862) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="xfrm" type="a:CT\_Transform2D"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

#### bounceEnd

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **s:ST\_PositiveFixedPercentage** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.7.9) that specifies the percentage of the [**time node**](#gt_9119779c-a57f-45b7-a9b2-1ceab434560f)'s duration to do a bounce at the end of the animation. The bounce emulates a mass-spring-damper system. See section [2.2.2](#Section_3dae7e98e8ea426598e041146b9eb838) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this attribute.

1. <xsd:attribute name="bounceEnd" type="s:ST\_PositiveFixedPercentage"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### bwMode

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **a:ST\_BlackWhiteMode** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies how to interpret color information contained within a content part to achieve a color, black and white, or grayscale rendering of the content part. This attribute specifies only the rendering mode applied to the content part; it does not affect how the actual color information is persisted. See section [2.2.3](#Section_a05ae034990f44748c975c70bb0a9862) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this attribute.

1. <xsd:attribute name="bwMode" type="a:ST\_BlackWhiteMode"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### dur

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time a transition takes to display from start to finish. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this attribute.

1. <xsd:attribute name="dur" type="p14:ST\_UniversalTimeOffset"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### presetBounceEnd

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

An **s:ST\_PositiveFixedPercentage** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.7.9) that specifies a preset percentage of a [**time node**](#gt_9119779c-a57f-45b7-a9b2-1ceab434560f)'s duration to do a bounce at the end of the animation. This value is used only by the user interface. The actual bounce animations are specified by the **bounceEnd** (section [2.3.2.1](#Section_1a4ace6fc76241f2870750220fc6cd9c)) attributes. See section [2.2.2](#Section_3dae7e98e8ea426598e041146b9eb838) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this attribute.

1. <xsd:attribute name="presetBounceEnd" type="s:ST\_PositiveFixedPercentage"/>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Complex Types

#### CT\_BrowseMode

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [browseMode](#Section_f500c032002b44b884fcada145d84bf3)

A complex type that specifies the visibility of the status bar in [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b) browse mode.

*Attributes:*

**showStatus:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies the visibility of status bar when slide show is in browse mode.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_BrowseMode">
2. <xsd:attribute name="showStatus" type="xsd:boolean" use="optional" default="true"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ContentPartNonVisual

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [nvContentPartPr](#Section_160202ae324149c8aad23f8e5e043602)

A complex type which specifies non-visual properties for a **contentPart** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.14).

*Child Elements:*

**cNvPr:** An **a:CT\_NonVisualDrawingProps** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the non-visual drawing properties for the content part. This element allows for additional information that does not affect the appearance of the content part to be stored.

**cNvContentPartPr:** An **a14:CT\_NonVisualInkContentPartProperties** element ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.3.3.7) that specifies non-visual [**ink**](#gt_9fcdd1d5-3563-49b9-8a2e-bf696fb08fd0) properties for the content part. This element allows for additional information that does not affect the appearance of ink in the content part to be stored.

**nvPr:** A **p:CT\_ApplicationNonVisualDrawingProps** element ([ISO/IEC29500-4:2016] section A.3) that specifies PresentationML Drawing specific non-visual properties for the content part.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ContentPartNonVisual">
2. <xsd:sequence>
3. <xsd:element name="cNvPr" type="a:CT\_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="cNvContentPartPr" type="a14:CT\_NonVisualInkContentPartProperties" minOccurs="0" maxOccurs="1"/>
5. <xsd:element name="nvPr" type="p:CT\_ApplicationNonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
6. </xsd:sequence>
7. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DefaultImageDpi

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [defaultImageDpi](#Section_28952ea67e824ce787a9d76f9ed0fa91)

A complex type that specifies the default dpi to use when saving each image in the document.

*Attributes:*

**val:** An **xsd:unsignedInt** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) that specifies the dpi.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DefaultImageDpi">
2. <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DiscardImageEditData

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [discardImageEditData](#Section_ec51c8866e0f4fa183a6a33ca3cea0aa)

A complex type that specifies whether to discard editing data for images when saving.

*Attributes:*

**val:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies whether to discard image editing data when saving.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DiscardImageEditData">
2. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_FlyThroughTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [flythrough](#Section_71a951a17d6d45779b032fb84632deb2)

A complex type that specifies the parameters for a fly-through transition.

*Attributes:*

**dir:**  A **p:ST\_TransitionInOutDirectionType** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

**hasBounce:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies that the movement of the presentation slides during the transition includes a bounce.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_FlyThroughTransition">
2. <xsd:attribute name="dir" type="p:ST\_TransitionInOutDirectionType" use="optional" default="in"/>
3. <xsd:attribute name="hasBounce" type="xsd:boolean" use="optional" default="false"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_GlitterTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [glitter](#Section_c78988eeb178452392176d18df30f674)

A complex type that specifies the parameters for a glitter transition.

*Attributes:*

**dir:** A **p:ST\_TransitionSideDirectionType** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

**pattern:** An **ST\_TransitionPattern** (section [2.3.4.4](#Section_ec144032652d4dbb8d3ceccc12409a84)) attribute that specifies the shape of the visuals used during the transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_GlitterTransition">
2. <xsd:attribute name="dir" type="p:ST\_TransitionSideDirectionType" use="optional" default="l"/>
3. <xsd:attribute name="pattern" type="ST\_TransitionPattern" use="optional" default="diamond"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_LaserTrace

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_LaserTraceList](#Section_b35b724f590b480ab5b772e97735c2b2)

A complex type that specifies a list of laser trace points. The first point in the list of points specifies when and where the laser point appears. The last point in the list of points specifies when and where the laser point disappears. Other trace points in the list of points specify laser point appearance time and locations.

*Child Elements:*

**tracePt:** A **CT\_LaserTracePoint** element (section [2.3.3.9](#Section_677516c6a4bb4920971e50f951e27df8)) that specifies a location of the laser point.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_LaserTrace">
2. <xsd:sequence>
3. <xsd:element name="tracePt" type="CT\_LaserTracePoint" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_LaserTraceList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [laserTraceLst](#Section_a0466c2453384edc920a3d095aa8738a)

A complex type that specifies a list of laser traces.

*Child Elements:*

**tracePtLst:** A **CT\_LaserTrace** element (section [2.3.3.7](#Section_7fdb78abb82145efa5c0923f3804c528)) that specifies a laser trace.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_LaserTraceList">
2. <xsd:sequence>
3. <xsd:element name="tracePtLst" type="CT\_LaserTrace" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_LaserTracePoint

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_LaserTrace](#Section_7fdb78abb82145efa5c0923f3804c528)

A complex type that specifies the time and location of the laser pointer on a [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192).

*Attributes:*

**t:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time relative to the beginning of the slide timeline and not including transition time.

**x:** An **a:ST\_Coordinate** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the horizontal location relative to the top-left corner of the presentation slide.

**y:** An **a:ST\_Coordinate** attribute ([ISO/IEC29500-4:2016] section A.4.1) that specifies the vertical location relative to the top-left corner of the presentation slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_LaserTracePoint">
2. <xsd:attribute name="t" type="p14:ST\_UniversalTimeOffset" use="required"/>
3. <xsd:attribute name="x" type="a:ST\_Coordinate" use="required"/>
4. <xsd:attribute name="y" type="a:ST\_Coordinate" use="required"/>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_LeftRightDirectionTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [switch](#Section_3da05579946146e2a1c732fe2092bba6), [flip](#Section_02b192a9284c40e5aa3ca89c5f6f66cc), [ferris](#Section_e326a2fa25bd43a490f2f0356d5f6405), [gallery](#Section_7e9eb7c83945419bb3787672b6133425), [conveyor](#Section_e0aeee44571e49c8a753e7a8dd2026bb)

A complex type that specifies a transition restricted to left and right directions.

*Attributes:*

**dir:** An **ST\_TransitionLeftRightDirectionType** attribute (section [2.3.4.3](#Section_397e4c1e2ed74beba84b3d82c7aa03a5)) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_LeftRightDirectionTransition">
2. <xsd:attribute name="dir" type="ST\_TransitionLeftRightDirectionType"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaBookmark

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_MediaBookmarkList](#Section_a3c0d72cf3c94fbb8b247422f71ae45e)

A complex type that specifies a media bookmark on the media.

*Attributes:*

**name:** An xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the name for the bookmark. The bookmark name MUST be unique among all bookmarks in its parent **CT\_MediaBookmarkList** (section 2.3.3.12).

**time:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#Section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time of the bookmark relative to the beginning of the media. It MUST be unique among all bookmarks in its parent **CT\_MediaBookmarkList** (section 2.3.3.12). It MUST be less than or equal to the length of the media.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaBookmark">
2. <xsd:attribute name="name" type="xsd:string"/>
3. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaBookmarkList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_Media](#Section_f8b7e1cb976e4f388139f9e5ffa826e8)

A complex type that specifies a list of media bookmarks on the media.

*Child Elements:*

**bmk:** A **CT\_MediaBookmark** element (section [2.3.3.11](#Section_2594f161c0314cf39608657c32deef77)) that specifies a bookmark name and time.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaBookmarkList">
2. <xsd:sequence>
3. <xsd:element name="bmk" type="CT\_MediaBookmark" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaBookmarkTarget

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [bmkTgt](#Section_7a7c9c0b9ceb4cac909fbd57f052c863)

A complex type that specifies a media bookmark that triggers an animation.

*Attributes:*

**spid:** An **a:ST\_DrawingElementId** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the [**shape identifier**](#gt_10fbabb4-d33a-4b89-bedd-17cd448fba2b) of the [**shape**](#gt_d0e38aa4-2c71-4a6f-b5e6-75766fa9409e) that contains video or audio data.

**bmkName:** An **xsd:string** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) that specifies the name of the bookmark for the media that is contained in the shape specified by **spid**. The name MUST exist in the **CT\_MediaBookmarkList** (section [2.3.3.12](#Section_a3c0d72cf3c94fbb8b247422f71ae45e)) contained by the media.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaBookmarkTarget">
2. <xsd:attribute name="spid" type="a:ST\_DrawingElementId" use="required"/>
3. <xsd:attribute name="bmkName" type="xsd:string" use="required"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_Media

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [media](#Section_3d88e290a4a94db29457b04687c06cf5)

A complex type that specifies the media.

*Child Elements:*

**trim:** A **CT\_MediaTrim** element (section [2.3.3.18](#Section_c835eea3fd6f40558a5792b193b7b2e3)) that specifies the amount of time to be trimmed from the start and end of the media during playback.

**fade:** A **CT\_MediaFade** element (section [2.3.3.15](#Section_16dcdeabc7544980a435763affd13817)) that specifies the starting and ending fade durations for the media.

**bmkLst:** A **CT\_MediaBookmarkList** element (section [2.3.3.12](#Section_a3c0d72cf3c94fbb8b247422f71ae45e)) that specifies a list of bookmarks on the media.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the media will be stored in the extension list.

*Attributes:*

**r:embed:** A **r:ST\_RelationshipId** ([ISO/IEC29500-4:2016] section A.7.8) attribute that specifies the relationship identifier that is used to determine the location of the media if it is embedded in the document. The **r:embed** attribute MUST be present if the **r:link** attribute is not present. If both the **r:embed** and **r:link** attributes are present, the **r:link** attribute takes precedence.

**r:link:** A **r:ST\_RelationshipId** ([ISO/IEC29500-4:2016] section A.7.8) attribute that specifies the relationship identifier that is used to determine the location of the media if it is linked from the document. The **r:link** attribute MUST be present if the **r:embed** attribute is not present. If both the **r:link** and **r:embed** attributes are present, the **r:link** attribute takes precedence.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Media">
2. <xsd:sequence>
3. <xsd:element name="trim" type="CT\_MediaTrim" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="fade" type="CT\_MediaFade" minOccurs="0" maxOccurs="1"/>
5. <xsd:element name="bmkLst" type="CT\_MediaBookmarkList" minOccurs="0" maxOccurs="1"/>
6. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
7. </xsd:sequence>
8. <xsd:attributeGroup ref="a:AG\_Blob"/>
9. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaFade

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_Media](#Section_f8b7e1cb976e4f388139f9e5ffa826e8)

A complex type that specifies the media fade.

*Attributes:*

**in:** An **ST\_UniversalTimeOffset** (section [2.3.4.6](#Section_a3ead080d9cb4b4a80146d815248c23b)) attribute that specifies the duration of the starting fade. It MUST be less than or equal to the total length of the media minus the **out**.

**out:** An **ST\_UniversalTimeOffset** attribute that specifies the duration of the ending fade. It MUST be less than or equal to the total length of the media minus the **in**.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaFade">
2. <xsd:attribute name="in" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
3. <xsd:attribute name="out" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaPlaybackEventRecord

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_ShowEventRecordList](#Section_c2e6338edcee4f62b70bfb7410ed8c03)

A complex type that specifies a media playback event that occurs during [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b).

*Attributes:*

**time:** An **ST\_UniversalTimeOffset** (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) attribute that specifies the time that the event occurs. The value is relative to the beginning of the slide timeline, which does not include side transition time.

**objId:** An **a:ST\_DrawingElementId** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the identifier of the media object on the slide that is the target of the event.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaPlaybackEventRecord">
2. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
3. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaSeekEventRecord

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_ShowEventRecordList](#Section_c2e6338edcee4f62b70bfb7410ed8c03)

A complex type that specifies a media seek event that occurs during [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b).

*Attributes:*

**time:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time that the event occurs. The value is relative to the beginning of the slide timeline, which does not include slide transition time.

**objId:** An **a:ST\_DrawingElementId** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the identifier of the media object on the slide that is the target of this event.

**seek:** An **ST\_UniversalTimeOffset** attribute (section 2.3.4.6) that specifies the time of the position to seek to in the media stream.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaSeekEventRecord">
2. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
3. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
4. <xsd:attribute name="seek" type="p14:ST\_UniversalTimeOffset" use="required"/>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MediaTrim

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_Media](#Section_f8b7e1cb976e4f388139f9e5ffa826e8)

A complex type that specifies the amount of time to be trimmed from the start and end of the media during playback.

*Attributes:*

**st:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies a duration of time to be removed from the start of the media during playback. It MUST be less than the total length of the media minus the **end**.

**end:** An **ST\_UniversalTimeOffset** attribute (section 2.3.4.6) that specifies a duration of time to be removed from the end of the media during playback. It MUST be less than the total length of the media minus the **st**.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MediaTrim">
2. <xsd:attribute name="st" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
3. <xsd:attribute name="end" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_NullEventRecord

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_ShowEventRecordList](#Section_c2e6338edcee4f62b70bfb7410ed8c03)

A complex type that specifies an unknown event in [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b). This is for future extension.

*Attributes:*

**time:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time that the event occurs. The value is relative to the beginning of the slide timeline, which does not include slide transition time.

**objId:** An **a:ST\_DrawingElementId** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the identifier of the shape object on the slide that is the target of this event.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_NullEventRecord">
2. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
3. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_PrismTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [prism](#Section_52f75e750b724e82ab576474229e751c)

A complex type that specifies the parameters for a prism transition.

*Attributes:*

**dir:** A **p:ST\_TransitionSideDirectionType** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

**isContent:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies whether the visual representation draws presentation slide content and presentation slide background separately.

**isInverted:** An **xsd:boolean** attribute ([XMLSCHEMA2/2] section 3.2.2) that specifies whether the layout of the presentation slides during the transition is concave instead of convex.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_PrismTransition">
2. <xsd:attribute name="dir" type="p:ST\_TransitionSideDirectionType" use="optional" default="l"/>
3. <xsd:attribute name="isContent" type="xsd:boolean" use="optional" default="false"/>
4. <xsd:attribute name="isInverted" type="xsd:boolean" use="optional" default="false"/>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_RandomId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [creationId](#Section_82a107ddbeeb46468bd248f433e1d62e), [modId](#Section_c7f10e508b6f42e09926e1d15f6a4861)

A complex type that specifies a cryptographically strong random number.

*Attributes:*

**val:** An **xsd:unsignedInt** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) that specifies the random number.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_RandomId">
2. <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_RevealTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [reveal](#Section_830962fcea324de9b0c5ba5e2a8a9bb3)

A complex type that specifies the parameters for a reveal transition.

*Attributes:*

**thruBlk:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies whether the transition fades through black.

**dir:** An [**ST\_TransitionLeftRightDirectionType**](#Section_397e4c1e2ed74beba84b3d82c7aa03a5) attribute (section 2.3.4.3) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_RevealTransition">
2. <xsd:attribute name="thruBlk" type="xsd:boolean" use="optional" default="false"/>
3. <xsd:attribute name="dir" type="ST\_TransitionLeftRightDirectionType" use="optional" default="l"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_RippleTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [ripple](#Section_c1c9b4f579c04e2f8b59db2b4cee9f00)

A complex type that specifies the parameters for a ripple transition.

*Attributes:*

**dir:** An **ST\_TransitionCornerAndCenterDirectionType** attribute (section [2.3.4.2](#Section_ca059808c6b34e038b01f1d20b324a8d)) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_RippleTransition">
2. <xsd:attribute name="dir" type="ST\_TransitionCornerAndCenterDirectionType" use="optional" default="center"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_Section

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_SectionList](#Section_b499c39b7c504a5888e6f86e6046be50)

A complex type that specifies a section and its properties.

*Child Elements:*

**sldIdLst:** A [**CT\_SectionSlideIdList**](#Section_7bde17721da34311b7f1dcf5f7fe96c4) element (section 2.3.3.26) that specifies a list of [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) in a section.

**extLst:**  A **p:CT\_ExtensionList** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the extension list. All future extensions to the section will be stored in the extension list.

*Attributes:*

**name:** An **xsd:string** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) that specifies the name of the section.

**id:** A **s:ST\_Guid** attribute ([ISO/IEC29500-4:2016] section A.7.9) that specifies a [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1) used to uniquely identify a section in the **CT\_SectionList** (section 2.3.3.25).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Section">
2. <xsd:sequence>
3. <xsd:element name="sldIdLst" type="CT\_SectionSlideIdList" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="name" type="xsd:string"/>
7. <xsd:attribute name="id" type="s:ST\_Guid"/>
8. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SectionList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [sectionLst](#Section_db88eca9e5d04fc6b1c95387557998bd)

A complex type that specifies section properties for the document.

*Child Elements:*

**section:** A **CT\_Section** element (section [2.3.3.24](#Section_5bb610d5ced844eda4b6cd3d5f938906)) that specifies a section in the document.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SectionList">
2. <xsd:sequence>
3. <xsd:element name="section" type="CT\_Section" minOccurs="1" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SectionSlideIdList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_Section](#Section_5bb610d5ced844eda4b6cd3d5f938906)

A complex type that specifies the list of [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) that belong to a section.

*Child Elements:*

**sldId:** A **CT\_SectionSlideIdListEntry** element (section [2.3.3.27](#Section_732254240c3d44a88908eb9500460125)) that specifies an identifier of a presentation slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SectionSlideIdList">
2. <xsd:sequence>
3. <xsd:element name="sldId" type="CT\_SectionSlideIdListEntry" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SectionSlideIdListEntry

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_SectionSlideIdList](#Section_7bde17721da34311b7f1dcf5f7fe96c4)

A complex type that specifies the [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192) identifier.

*Attributes:*

**id:** A **p:ST\_SlideId** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the slide identifier.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SectionSlideIdListEntry">
2. <xsd:attribute name="id" type="p:ST\_SlideId" use="required"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ShowEventRecordList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [showEvtLst](#Section_04f39c957a484f98bb211f58fcd65e9d)

A complex type that specifies a list of [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b) events that occurs during slide show.

*Child Elements:*

**triggerEvt:** A **CT\_TriggerEventRecord** element (section [2.3.3.31](#Section_7169d50e01264777a072c615e9d9b489)) that specifies a triggered animation event.

**playEvt:** A **CT\_MediaPlaybackEventRecord** element (section [2.3.3.16](#Section_405a46f6e9da44baa6002b1eb59d07c8)) that specifies an event targeting a media object that starts playback.

**stopEvt:** A **CT\_MediaPlaybackEventRecord** element (section 2.3.3.16) that specifies an event targeting a media object that stops playback.

**pauseEvt:** A **CT\_MediaPlaybackEventRecord** element (section 2.3.3.16) that specifies an event targeting a media object that pauses playback.

**resumeEvt:** A **CT\_MediaPlaybackEventRecord** element (section 2.3.3.16) that specifies an event targeting a media object that assumes playback.

**seekEvt:** A **CT\_MediaSeekEventRecord** element (section [2.3.3.17](#Section_23f1dc1973c64e7aa9ea11007f2a8821)) that specifies an event targeting a media object that seeks to a specified time in the media stream.

**nullEvt:** A **CT\_NullEventRecord** element (section [2.3.3.19](#Section_20d7137fba0a49e4b66967263a8161c3)) that specifies an unknown event.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ShowEventRecordList">
2. <xsd:sequence>
3. <xsd:choice minOccurs="0" maxOccurs="unbounded">
4. <xsd:element name="triggerEvt" type="CT\_TriggerEventRecord"/>
5. <xsd:element name="playEvt" type="CT\_MediaPlaybackEventRecord"/>
6. <xsd:element name="stopEvt" type="CT\_MediaPlaybackEventRecord"/>
7. <xsd:element name="pauseEvt" type="CT\_MediaPlaybackEventRecord"/>
8. <xsd:element name="resumeEvt" type="CT\_MediaPlaybackEventRecord"/>
9. <xsd:element name="seekEvt" type="CT\_MediaSeekEventRecord"/>
10. <xsd:element name="nullEvt" type="CT\_NullEventRecord"/>
11. </xsd:choice>
12. </xsd:sequence>
13. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ShowMediaControls

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [showMediaCtrls](#Section_39be05f1f23e4b20a825e710ca21e78c)

A complex type that specifies the visibility of media user interface controls during [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b).

*Attributes:*

**val:** An **xsd:boolean** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) that specifies the visibility of media user interface controls.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ShowMediaControls">
2. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
3. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ShredTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [shred](#Section_f431205506a24e4b81cb9aae921703ed)

A complex type that specifies the parameters for a shred transition.

*Attributes:*

**pattern:** An **ST\_TransitionShredPattern** attribute (section [2.3.4.5](#Section_af9e4ab58e0648719aeeedda326fe3de)) that specifies the shape of the visuals used during the transition.

**dir:**  A **p:ST\_TransitionInOutDirectionType** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the direction [**presentation slides**](#gt_18428521-9032-41a4-85c4-6fb65d882192) move during the transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ShredTransition">
2. <xsd:attribute name="pattern" type="ST\_TransitionShredPattern" use="optional" default="strip"/>
3. <xsd:attribute name="dir" type="p:ST\_TransitionInOutDirectionType" use="optional" default="in"/>
4. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TriggerEventRecord

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_ShowEventRecordList](#Section_c2e6338edcee4f62b70bfb7410ed8c03)

A complex type that specifies a triggered event that occurs during [**slide show**](#gt_340561a9-dc0c-42ad-ab6f-7b6d854d3c1b).

*Attributes:*

**type:** A **p:ST\_TLTriggerEvent** attribute ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the type of the triggered event.

**time:** An **ST\_UniversalTimeOffset** attribute (section [2.3.4.6](#section_a3ead080d9cb4b4a80146d815248c23b)) that specifies the time that the event occurs. The value is relative to the beginning of the slide timeline, which does not include slide transition time.

**objId:** An **a:ST\_DrawingElementId** attribute ([ISO/IEC29500-4:2016] section A.4.1) that specifies the identifier of the shape object on the slide that is the target of this event.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TriggerEventRecord">
2. <xsd:attribute name="type" type="p:ST\_TLTriggerEvent" use="required"/>
3. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
4. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
5. </xsd:complexType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_TransitionCenterDirectionType

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [ST\_TransitionCornerAndCenterDirectionType](#Section_ca059808c6b34e038b01f1d20b324a8d)

A simple type that specifies a direction restricted to the center.

| Value | Meaning |
| --- | --- |
| center | Direction of movement is to or from the center. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionCenterDirectionType">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="center"/>
4. </xsd:restriction>
5. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_TransitionCornerAndCenterDirectionType

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_RippleTransition](#Section_053cdddd5f304beda1ff67e7b5759dd3)

A simple type that specifies a direction restricted to the corners and center.

This simple type is a union of the following types:

* The **p:ST\_TransitionCornerDirectionType** simple type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4)
* The **ST\_TransitionCenterDirectionType** simple type (section [2.3.4.1](#Section_1779aee15009459c9d81807811fcd0e7))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionCornerAndCenterDirectionType">
2. <xsd:union memberTypes="p:ST\_TransitionCornerDirectionType ST\_TransitionCenterDirectionType"/>
3. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_TransitionLeftRightDirectionType

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_LeftRightDirectionTransition](#Section_56ea32ef98ad4bfbb57220a99c86c4d8), [CT\_RevealTransition](#Section_eb6d865240724c1f957f548ee3ab1584)

A simple type that specifies a direction restricted to the values of left and right.

| Value | Meaning |
| --- | --- |
| l | Left |
| r | Right |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionLeftRightDirectionType">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="l"/>
4. <xsd:enumeration value="r"/>
5. </xsd:restriction>
6. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_TransitionPattern

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_GlitterTransition](#Section_93a73ee56799478f8c1f3db23726e10e)

A simple type that specifies a geometric pattern that tiles together to fill a larger area.

| Value | Meaning |
| --- | --- |
| diamond | Diamond tile pattern |
| hexagon | Hexagon tile pattern |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionPattern">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="diamond"/>
4. <xsd:enumeration value="hexagon"/>
5. </xsd:restriction>
6. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_TransitionShredPattern

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [CT\_ShredTransition](#Section_c579b0ad29fc450ebea918d8190b0b44)

A simple type that specifies a geometric shape that tiles together to fill a larger area.

| Value | Meaning |
| --- | --- |
| strip | Vertical strips |
| rectangle | Small rectangles |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionShredPattern">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="strip"/>
4. <xsd:enumeration value="rectangle"/>
5. </xsd:restriction>
6. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_UniversalTimeOffset

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2010/main

*Referenced by:* [dur](#Section_9032bdb2b273470b8ac4c98a8c944494), [CT\_MediaTrim](#Section_c835eea3fd6f40558a5792b193b7b2e3), [CT\_MediaFade](#Section_16dcdeabc7544980a435763affd13817), [CT\_MediaBookmark](#Section_2594f161c0314cf39608657c32deef77), [CT\_LaserTracePoint](#Section_677516c6a4bb4920971e50f951e27df8), [CT\_TriggerEventRecord](#Section_7169d50e01264777a072c615e9d9b489), [CT\_NullEventRecord](#Section_20d7137fba0a49e4b66967263a8161c3), [CT\_MediaPlaybackEventRecord](#Section_405a46f6e9da44baa6002b1eb59d07c8), [CT\_MediaSeekEventRecord](#Section_23f1dc1973c64e7aa9ea11007f2a8821), [CT\_ZoomObjectProperties](#Section_059e3722139d4e419841d53eecaf73f6)

A simple type that specifies an amount of time. It MUST be a valid TIMEOFFSET as specified in the following ABNF [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096) grammar:

TIMEOFFSET = TIME [UNITS]

TIME = 1\*DIGIT ["." 1\*DIGIT]

UNITS = "h" / "min" / "s" / "ms" / "µs" / "ns"

UNITS specifies one of the following units of time:

|  |  |
| --- | --- |
| Abbreviation | Unit of Time |
| h | Hour |
| min | Minute |
| s | Second |
| ms | Millisecond |
| µs | Microsecond |
| ns | Nanosecond |

If no unit is specified, the default is millisecond.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_UniversalTimeOffset">
2. <xsd:restriction base="xsd:string"/>
3. </xsd:simpleType>

See section [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2012/main

### Elements

#### chartTrackingRefBased

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_ChartTrackingRefBased** element (section [2.4.3.1](#Section_7570e00a5f294d36bc303c23d19cbc53)) that specifies how data point properties and datalabels ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.2.1.2) in all charts ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 21.2) in this [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) behave.[<17>](#Appendix_A_17" \o "Product behavior note 17) See section [2.2.12](#Section_e32a99bd3b804be697dfad50ef6d2224) for how this element integrates with [ISO/IEC29500-1:2016].

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="chartTrackingRefBased" type="CT\_ChartTrackingRefBased"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### isNarration

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A [CT\_IsNarration](#Section_ce6eae7cfec041a797586adf67baf4c4) element[<18>](#Appendix_A_18" \o "Product behavior note 18) that specifies whether the shape is narration related.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="isNarration" type="CT\_IsNarration"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### notesGuideLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_ExtendedGuideList** element (section [2.4.3.4](#Section_7023ef35b4a149fbb21cb32109895c8d)) that specifies a list of extended guides for a notes page view.[<19>](#Appendix_A_19" \o "Product behavior note 19) See section [2.2.11](#Section_8337099d6e28412ea45d4c9710931d70) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="notesGuideLst" type="CT\_ExtendedGuideList"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### presenceInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_PresenceInfo** element (section [2.4.3.7](#Section_04553ed32f834ec38e2ed41c46979e94)) that specifies presence information for a [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) author.[<20>](#Appendix_A_20" \o "Product behavior note 20) See section [2.2.10](#Section_f1ad49e19f7d404ba2956b02bedb7c36) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="presenceInfo" type="CT\_PresenceInfo"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### prstTrans

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_PresetTransition** element (section [2.4.3.8](#Section_56b22fd150b24a24ab9620a78cac7b06)) that specifies a preset transition.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="prstTrans" type="CT\_PresetTransition"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sldGuideLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_ExtendedGuideList** element (section [2.4.3.4](#Section_7023ef35b4a149fbb21cb32109895c8d)) that specifies a list of extended guides for a master slide, a slide layout or a slide view of the presentation.[<21>](#Appendix_A_21" \o "Product behavior note 21) See section [2.2.11](#Section_8337099d6e28412ea45d4c9710931d70) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldGuideLst" type="CT\_ExtendedGuideList"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### threadingInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

A **CT\_CommentThreading** element (section [2.4.3.2](#Section_0bb9f3a2637d4068913fe5db40743a30)) that specifies [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) threading.[<22>](#Appendix_A_22" \o "Product behavior note 22) See section [2.2.10](#Section_f1ad49e19f7d404ba2956b02bedb7c36) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="threadingInfo" type="CT\_CommentThreading"/>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_ChartTrackingRefBased

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [chartTrackingRefBased](#Section_6c4aae64cf03408b9e5001666e6352f3)

A complex type that specifies how data point properties and datalabels ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.2.1.2) in all charts ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 21.2) in this [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) behave.[<23>](#Appendix_A_23" \o "Product behavior note 23)

*Attributes:*

**val:** An **xsd:boolean** ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies the behavior of data point properties and datalabels ([MS-ODRAWXML] section 2.2.1.2) in all charts ([ISO/IEC29500-1:2016] section 21.2) in this presentation as defined by the following table.

|  |  |
| --- | --- |
| **Value** | **Meaning** |
| True | Datapoint properties and datalabels in all charts ([ISO/IEC29500-1:2016] section 21.2) in this presentation follow their reference. |
| False | Datapoint properties and datalabels in all charts ([ISO/IEC29500-1:2016] section 21.2) in this presentation follow their position in the chart. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ChartTrackingRefBased">
2. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
3. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentThreading

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [threadingInfo](#Section_c9f006ddb1664699a3e6074ccbe441ca)

A complex type that specifies threading extensions to the **CT\_Comment** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3).[<24>](#Appendix_A_24" \o "Product behavior note 24)

*Child Elements:*

**parentCm:** A **CT\_ParentCommentIdentifier** element (section [2.4.3.6](#Section_db7e896980af4891bc494d2111bfd82c)) that specifies the parent comment.

*Attributes:*

**timeZoneBias:** An **xsd:int** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.17) that specifies the time zone bias, in minutes. The bias is the difference between [**Coordinated Universal Time (UTC)**](#gt_f2369991-a884-4843-a8fa-1505b6d5ece7) and time stored in the **dt** attribute of the **CT\_Comment** complex type ([ISO/IEC29500-4:2016] section A.3). All translations between UTC and local time are based on the following formula: UTC = local time + bias

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentThreading">
2. <xsd:sequence>
3. <xsd:element name="parentCm" type="CT\_ParentCommentIdentifier" minOccurs="0" maxOccurs="1"/>
4. </xsd:sequence>
5. <xsd:attribute name="timeZoneBias" type="xsd:int"/>
6. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ExtendedGuide

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [CT\_ExtendedGuideList](#Section_7023ef35b4a149fbb21cb32109895c8d)

A complex type that specifies a guide within a presentation.[<25>](#Appendix_A_25" \o "Product behavior note 25) Guides are lines used for arranging shapes and other content.

*Child Elements:*

**clr:** A **CT\_Color** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) that specifies the color of the guide.

**extLst:** A **CT\_ExtensionList** element ([ISO/IEC29500-4:2016] section A.3) that specifies the extension list. All future extensions to the guide will be stored in the extension list.

*Attributes:*

**id:** An **xsd:unsignedInt** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) that specifies a unique identifier for the guide. The identifier MUST be unique within its parent **CT\_ExtendedGuideList** (section 2.4.3.4).

**name:** An **xsd:string** attribute ([XMLSCHEMA2/2] section 3.2.1) that specifies the name of the guide.

**orient:** An **ST\_Direction** attribute ([ISO/IEC29500-4:2016] section A.3) that specifies the orientation of the guide.

**pos:** An **ST\_Coordinate32** attribute ([ISO/IEC29500-4:2016] section A.4.1) that specifies the position of the guide relative to the top or left side of the slide.

**userDrawn:** An **xsd:boolean** ([XMLSCHEMA2/2] section 3.2.2) attribute that specifies whether the guide was inserted by the user.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ExtendedGuide">
2. <xsd:sequence>
3. <xsd:element name="clr" type="a:CT\_Color" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
7. <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
8. <xsd:attribute name="orient" type="p:ST\_Direction" use="optional" default="vert"/>
9. <xsd:attribute name="pos" type="a:ST\_Coordinate32" use="optional" default="0"/>
10. <xsd:attribute name="userDrawn" type="xsd:boolean" use="optional" default="false"/>
11. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ExtendedGuideList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [sldGuideLst](#Section_2b8e62b7e8e44795a7a6394c2295edaf), [notesGuideLst](#Section_6135012d23ec4278b5d20fa61b315531)

A complex type that specifies a list of extended guides for a master slide, a slide layout, or a particular view of the presentation.[<26>](#Appendix_A_26" \o "Product behavior note 26)

*Child Elements:*

**guide:** A **CT\_ExtendedGuide** element (section [2.4.3.3](#Section_9ca7eff3ea7845479aafc18ca5e8319a)) that specifies a guide in a presentation.

**extLst:** A **CT\_ExtensionList** element ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) that specifies the extension list. All future extensions to the guide list will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ExtendedGuideList">
2. <xsd:sequence>
3. <xsd:element name="guide" type="CT\_ExtendedGuide" minOccurs="0" maxOccurs="unbounded"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_IsNarration

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [isNarration](#Section_4ae507ab2b3d41b094b2f59a1626023e)

A complex type[<27>](#Appendix_A_27" \o "Product behavior note 27) that specifies the narration flag for shapes.

*Attributes:*

**val:** A xsd:boolean ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies whether the shape is narration related.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_IsNarration">
2. <xsd:attribute name="val" type="xsd:boolean" use="optional" default="false"/>
3. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ParentCommentIdentifier

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [CT\_CommentThreading](#Section_0bb9f3a2637d4068913fe5db40743a30)

A complex type that specifies the [**comment**](#gt_c8a897b9-522f-4b7a-8df6-40b65ac09f4d) author ID and comment index of the parent comment.[<28>](#Appendix_A_28" \o "Product behavior note 28) Together, they identify the parent comment within a presentation.

*Attributes:*

**authorId:**  An **xsd:unsignedInt** attribute ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) that specifies the author of the parent comment by reference to the **authorId** attribute contained within the **CT\_Comment** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3).

**idx:** An **xsd:unsignedInt** attribute ([XMLSCHEMA2/2] section 3.3.22) that specifies the index of the parent comment by reference to the **idx** attribute contained within the **CT\_Comment** complex type ([ISO/IEC29500-4:2016] section A.3).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ParentCommentIdentifier">
2. <xsd:attribute name="authorId" type="xsd:unsignedInt"/>
3. <xsd:attribute name="idx" type="xsd:unsignedInt"/>
4. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_PresenceInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [presenceInfo](#Section_3afcb41c684947508e2d7db0e2375f32)

A complex type that specifies presence information extensions to the **CT\_CommentAuthor** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3).[<29>](#Appendix_A_29" \o "Product behavior note 29)

*Attributes:*

**userId:** An **xsd:string** ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies a unique user id for a person.

**providerId:** An **xsd:string** ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies the identity provider that produced the subsequent userId attribute.

This table lists example data for these attributes.

| Identity Provider | providerId  value | userId  value | Description of userId value |
| --- | --- | --- | --- |
| No Provider | "None" | "Name" | Author’s name |
| Active Directory | "AD" | SID | Active Directory Security Identifier (as specified in [[MS-DTYP]](%5bMS-DTYP%5d.pdf#Section_cca2742956894a16b2b49325d93e4ba2) section [2.4.2](http://msdn.microsoft.com/en-us/library/78eb9013-1c3a-4970-ad1f-2b1dad588a25/)) |
| Windows Live ID | "Windows Live" | CID | A 64-bit signed decimal that uniquely identifies a user on Windows Live. |
| Office 365[<30>](#Appendix_A_30" \o "Product behavior note 30) | "AD" | O365ID | A string that uniquely identifies a user. It SHOULD[<31>](#Appendix_A_31" \o "Product behavior note 31) be comprised of three individual values separated by a "::" character delimiter. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_PresenceInfo">
2. <xsd:attribute name="userId" type="xsd:string" use="required"/>
3. <xsd:attribute name="providerId" type="xsd:string" use="required"/>
4. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_PresetTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2012/main

*Referenced by:* [prstTrans](#Section_e421e750ae5846c19c97dae93f6574e3)

A complex type that specifies the parameters of a preset transition.

*Attributes:*

**prst:** An **xsd:string** ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the name of the preset transition. This name specifies the internal resource to use for the transition.

|  |  |
| --- | --- |
| **prst Value** | **Meaning** |
| fallOver | A fall over transition as shown in the following figure. |
| Sample with prst equal to "fallOver"  Figure 22: Sample with prst equal to "fallOver" | |
| drape | A drape transition as shown in the following figure. |
| Sample with prst equal to "drape"  Figure 23: Sample with prst equal to "drape" | |
| curtains | A curtains transition as shown in the following figure. |
| Sample with prst equal to "curtains"  Figure 24: Sample with prst equal to "curtains" | |
| wind | A wind transition as shown in the following figure. |
| Sample with prst equal to "wind"  Figure 25: Sample with prst equal to "wind" | |
| prestige | A prestige transition as shown in the following figure. |
| Sample with prst equal to "prestige"  Figure 26: Sample with prst equal to "prestige" | |
| fracture | A fracture transition as shown in the following figure. |
| Sample with prst equal to "fracture"  Figure 27: Sample with prst equal to "fracture" | |
| crush | A crush transition as shown in the following figure. |
| Sample with prst equal to "crush"  Figure 28: Sample with prst equal to "crush" | |
| peelOff | A peel off transition as shown in the following figure. |
| Sample with prst equal to "peelOff"  Figure 29: Sample with prst equal to "peelOff" | |
| pageCurlDouble | A double page curl transition as shown in the following figure. |
| Sample with prst equal to "pageCurlDouble"  Figure 30: Sample with prst equal to "pageCurlDouble" | |
| pageCurlSingle | A single page curl transition as shown in the following figure. |
| Sample with prst equal to "pageCurlSingle"  Figure 31: Sample with prst equal to "pageCurlSingle" | |
| airplane | An airplane transition as shown in the following figure. |
| Sample with prst equal to "airplane"  Figure 32: Sample with prst equal to "airplane" | |
| origami | An origami transition as shown in the following figure. |
| Sample with prst equal to "origami"  Figure 33: Sample with prst equal to "origami" | |

**invX:** An **xsd:boolean** ([XMLSCHEMA2/2] section 3.2.2) attribute that specifies whether to invert the X coordinates of the transition. This can be used to make a left direction-based transition preset into a right direction-based transition.

**invY:** An **xsd:boolean** ([XMLSCHEMA2/2] section 3.2.2) attribute that specifies whether to invert the Y coordinates of the transition. This can be used to make an up direction-based transition preset into a down direction-based transition preset.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_PresetTransition">
2. <xsd:attribute name="prst" type="xsd:string"/>
3. <xsd:attribute name="invX" type="xsd:boolean" use="optional" default="false"/>
4. <xsd:attribute name="invY" type="xsd:boolean" use="optional" default="false"/>
5. </xsd:complexType>

See section [5.2](#Section_27d7324c0a294475a980de020defb315) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2015/main

### Elements

#### designElem

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/main

A [CT\_DesignElement](#Section_208645d6756f4479a3d2249ebd379d28) element (section 2.5.3.1) that specifies whether an item is a design element. See section 2.5.3.1 for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="designElem" type="CT\_DesignElement"/>

See section [5.6](#Section_166486237c2a4c18a7cb093daa05500e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_DesignElement

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/main

*Referenced by:* [designElem](#Section_465ea8114e454288a783bef4b9ec6eec)

A complex type that specifies design element extensions to the **CT\_ApplicationNonVisualDrawingProps** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3)[<32>](#Appendix_A_32" \o "Product behavior note 32)

*Attributes:*

**val:** An xsd:boolean ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies whether an element is a design element.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DesignElement">
2. <xsd:attribute name="val" type="xsd:boolean"/>
3. </xsd:complexType>

See section [5.6](#Section_166486237c2a4c18a7cb093daa05500e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2015/09/main

### Elements

#### morph

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/09/main

A [CT\_MorphTransition](#Section_41ca8fbfefc849ac8a327bd0856544bd) element that specifies a morph transition. See section [2.2.1](#Section_22ebe6b52ade43d9977a98fa194725c2) for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following figure is a sample with the **option** attribute set to **byObject**.

Sample morph transition

Figure 34: Sample morph transition

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="morph" type="CT\_MorphTransition"/>

See section [5.4](#Section_a54fd7b704d64d16bbddb20b2b99578c) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_MorphTransition

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/09/main

*Referenced by:* [morph](#Section_68d26d78f7f547ab835d4e6c82ff39f0)

A complex type that specifies the parameters of a morph transition.

*Attributes:*

**option:** An [ST\_TransitionMorphOption](#Section_22e711ee35a742cbb87c1c277ec11070) attribute that specifies the level of detail for matching objects on the slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MorphTransition">
2. <xsd:attribute name="option" type="ST\_TransitionMorphOption" use="required"/>
3. </xsd:complexType>

See section [5.4](#Section_a54fd7b704d64d16bbddb20b2b99578c) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_TransitionMorphOption

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/09/main

*Referenced by:* [CT\_MorphTransition](#Section_41ca8fbfefc849ac8a327bd0856544bd)

A simple type that specifies the level of detail for matching objects on the slide.

| Value | Meaning |
| --- | --- |
| byObject | Sets the Objects effect option, where objects are matched and moved. |
| byWord | Sets the Words effect option, where objects as well as individual words are matched and moved. |
| byChar | Sets the Characters effect option, where objects as well as individual characters are matched and moved. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_TransitionMorphOption">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="byObject"/>
4. <xsd:enumeration value="byWord"/>
5. <xsd:enumeration value="byChar"/>
6. </xsd:restriction>
7. </xsd:simpleType>

See section [5.4](#Section_a54fd7b704d64d16bbddb20b2b99578c) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2015/10/main

### Elements

#### revInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

A [CT\_RevisionInfo](#Section_e26a765990dd41a09f553f34da837535) element that specifies the revisions contained in this document. A revision contains information about a set of modifications made to the document by one of the application instances participating in a collaborative session.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="revInfo" type="CT\_RevisionInfo"/>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_ClientRevision

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

*Referenced by:* [CT\_ClientRevisionList](#Section_fdacf9e7c8aa4eb4be0270ed3f5d0bd8)

A complex type that specifies information about a set of modifications made to the document by a collaborating application instance.

*Attributes:*

**id:** An [ST\_ClientID](#Section_65206abbcfaf489390b74674660c6933) attribute that specifies a unique identifier for an application instance in a collaborative session.

**v:** An [ST\_ClientRevisionNumber](#Section_84bd8c757410499e9a2ce7d3ad3b7c47) attribute that specifies a unique identifier for the latest revision made by this application instance that has been saved by this application instance.

**vWet:** An ST\_ClientRevisionNumber attribute that specifies an identifier for the latest revision made by this application instance that was saved by an application instance other than this application instance. A scenario when this attribute is applied is when a modification made by this application instance is sent to another application instance via a communication channel, and the other application instance saves the modification before this application instance does.

**dt:** An xsd:dateTime ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.7) attribute that specifies the date and time of the latest revision specified by **v** or **vWet**, whichever is the later.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ClientRevision">
2. <xsd:attribute name="id" type="ST\_ClientID" use="required"/>
3. <xsd:attribute name="v" type="ST\_ClientRevisionNumber" use="optional" default="0"/>
4. <xsd:attribute name="vWet" type="ST\_ClientRevisionNumber" use="optional" default="0"/>
5. <xsd:attribute name="dt" type="xsd:dateTime" use="required"/>
6. </xsd:complexType>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ClientRevisionList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

*Referenced by:* [CT\_RevisionInfo](#Section_e26a765990dd41a09f553f34da837535)

A complex type that specifies a list of revisions to the document.

*Child Elements:*

**client:** A [CT\_ClientRevision](#Section_bda2442f36394c0ea57163911b0558c6) element that specifies a revision made by an application instance in a collaborative session.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ClientRevisionList">
2. <xsd:sequence>
3. <xsd:element name="client" type="CT\_ClientRevision" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_RevisionInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

*Referenced by:* [revInfo](#Section_2f9b9e78b54442858bcdf797766e3aea)

A complex type that specifies information about the revisions made to a document.

*Child Elements:*

**revLst:** A [CT\_ClientRevisionList](#Section_fdacf9e7c8aa4eb4be0270ed3f5d0bd8) element that specifies a list of revisions made to the document.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the revision information will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_RevisionInfo">
2. <xsd:sequence>
3. <xsd:element name="revLst" type="CT\_ClientRevisionList" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_ClientID

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

*Referenced by:* [CT\_ClientRevision](#Section_bda2442f36394c0ea57163911b0558c6)

A simple type that specifies a unique identifier for an application instance participating in a collaborative session.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_ClientID">
2. <xsd:restriction base="xsd:string"/>
3. </xsd:simpleType>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_ClientRevisionNumber

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2015/10/main

*Referenced by:* [CT\_ClientRevision](#Section_bda2442f36394c0ea57163911b0558c6)

A simple type that specifies an unsigned integer for uniquely identifying a revision made by a particular application instance. A client revision number MUST be a strictly increasing value, with a later revision having a greater client revision number than an earlier one. A client revision number does not have to be unique across different application instances. A pair consisting of a client ID and a client revision number uniquely identifies a revision within a collaborative session.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_ClientRevisionNumber">
2. <xsd:restriction base="xsd:unsignedInt"/>
3. </xsd:simpleType>

See section [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2016/6/main

### Elements

None.

### Attributes

None.

### Complex Types

#### CT\_ZoomObjectProperties

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/6/main

*Referenced by:* [CT\_SectionZoomObject](#Section_8d071b010b7b4fab968ed501a1c121b8), [CT\_SlideZoomObject](#Section_c16836046df448599e9ddac99077d340), [CT\_SummaryZoomObject](#Section_9a9877dc4d074ee3a598108d34798095)

A complex type that specifies properties of a [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) object.

*Child Elements:*

**blipFill:** An a:CT\_BlipFillProperties ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.4) element that specifies the type of picture fill that the object uses.

**spPr:** An a:CT\_ShapeProperties ([ISO/IEC29500-1:2016] section A.4.1) element that specifies the visual shape properties that can be applied to the object.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.7.9) attribute that specifies the unique ID of the Zoom object.

**returnToParent:** An xsd:boolean ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies return to parent navigation behavior in slideshow.

**imageType:** An [ST\_ZoomObjectImageType](#Section_9a710598459041a19c0fb34c63b9866d) attribute that specifies whether a custom cover image is used, or the slide preview.

**transitionDur:** An [ST\_UniversalTimeOffset](#Section_a3ead080d9cb4b4a80146d815248c23b) attribute that specifies the duration of the transition between Zoom and slide. If not specified, it will use the destination slide transition and the timings associated with that transition.

**showBg:** An xsd:boolean ([XMLSCHEMA2/2] section 3.2.2) attribute that specifies whether the Zoom will use the background of the destination slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ZoomObjectProperties">
2. <xsd:sequence>
3. <xsd:element name="blipFill" type="a:CT\_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="spPr" type="a:CT\_ShapeProperties" minOccurs="1" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
7. <xsd:attribute name="returnToParent" type="xsd:boolean" use="optional" default="true"/>
8. <xsd:attribute name="imageType" type="ST\_ZoomObjectImageType" use="optional" default="preview"/>
9. <xsd:attribute name="transitionDur" type="p14:ST\_UniversalTimeOffset" use="optional"/>
10. <xsd:attribute name="showBg" type="xsd:boolean" use="optional" default="true"/>
11. </xsd:complexType>

See section [5.7](#Section_84585d01dfd5403e923527853aff4d46) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_ZoomObjectImageType

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/6/main

*Referenced by:* [CT\_ZoomObjectProperties](#Section_059e3722139d4e419841d53eecaf73f6)

A simple type that specifies whether the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) object is using the slide preview or a cover image.

| Value | Meaning |
| --- | --- |
| preview | Use the image of the slide or section |
| cover | Use a custom image |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_ZoomObjectImageType">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="preview"/>
4. <xsd:enumeration value="cover"/>
5. </xsd:restriction>
6. </xsd:simpleType>

See section [5.7](#Section_84585d01dfd5403e923527853aff4d46) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom

### Elements

#### sectionZm

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom

A [CT\_SectionZoom](#Section_1580d44b60904e07a17767f345bf9269) element that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Section Zoom container.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sectionZm" type="CT\_SectionZoom"/>

See section [5.8](#Section_55c6a539eea9478fa6ff6ad2f1dde7e7) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_SectionZoom

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom

*Referenced by:* [sectionZm](#Section_40214a8b104443fca9d53f8635ea5bc2)

A complex type that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Section Zoom container.

*Child Elements:*

**sectionZmObj:** A [CT\_SectionZoomObject](#Section_8d071b010b7b4fab968ed501a1c121b8) element that specifies the object type as a Section Zoom object.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SectionZoom">
2. <xsd:sequence>
3. <xsd:element name="sectionZmObj" type="CT\_SectionZoomObject" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.8](#Section_55c6a539eea9478fa6ff6ad2f1dde7e7) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SectionZoomObject

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom

*Referenced by:* [CT\_SectionZoom](#Section_1580d44b60904e07a17767f345bf9269)

A complex type that specifies the object type as a Section [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) object.

*Child Elements:*

**zmPr:** A [CT\_ZoomObjectProperties](#Section_059e3722139d4e419841d53eecaf73f6) element that specifies Section Zoom object properties.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

*Attributes:*

**sectionId:** A s:ST\_Guid ([ISO/IEC29500-4:2016]section A.7.9) attribute that specifies the section ID that the Section Zoom object links to.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SectionZoomObject">
2. <xsd:sequence>
3. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="sectionId" type="s:ST\_Guid" use="required"/>
7. </xsd:complexType>

See section [5.8](#Section_55c6a539eea9478fa6ff6ad2f1dde7e7) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2016/slidezoom

### Elements

#### sldZm

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/slidezoom

A [CT\_SlideZoom](#Section_16fcef9f1d29417d961015ac6aeff42a) element that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Slide Zoom container.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldZm" type="CT\_SlideZoom"/>

See section [5.9](#Section_87141ff266094acca63f1b230b4a1b38) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_SlideZoom

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/slidezoom

*Referenced by:* [sldZm](#Section_623f4c8ecd0a4c188c9df7be9cfbfd72)

A complex type that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Slide Zoom container.

*Child Elements:*

**sldZmObj:** A [CT\_SlideZoomObject](#Section_c16836046df448599e9ddac99077d340) element that specifies the object type as a Slide Zoom object.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideZoom">
2. <xsd:sequence>
3. <xsd:element name="sldZmObj" type="CT\_SlideZoomObject" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.9](#Section_87141ff266094acca63f1b230b4a1b38) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideZoomObject

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/slidezoom

*Referenced by:* [CT\_SlideZoom](#Section_16fcef9f1d29417d961015ac6aeff42a)

A complex type that specifies the object type as a Slide [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) object.

*Child Elements:*

**zmPr:** A [CT\_ZoomObjectProperties](#Section_059e3722139d4e419841d53eecaf73f6) element that specifies the Slide Zoom object properties.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

*Attributes:*

**sldId:** A p:ST\_SlideId ([ISO/IEC29500-4:2016] section A.3) attribute that specifies the slide ID that the Slide Zoom object links to.

**cId:** An xsd:unsignedInt ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) attribute that specifies the creation ID (see section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)) that the Slide Zoom object links to.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideZoomObject">
2. <xsd:sequence>
3. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="sldId" type="p:ST\_SlideId" use="required"/>
7. <xsd:attribute name="cId" type="xsd:unsignedInt" use="optional"/>
8. </xsd:complexType>

See section [5.9](#Section_87141ff266094acca63f1b230b4a1b38) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

### Elements

#### summaryZm

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

A [CT\_SummaryZoom](#Section_9ae06ed959434a969733c9f4cd3580e6) element that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Summary Zoom container.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="summaryZm" type="CT\_SummaryZoom"/>

See section [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_FixedLayout

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

*Referenced by:* [CT\_SummaryZoom](#Section_9ae06ed959434a969733c9f4cd3580e6)

A complex type that specifies the layout with user-defined [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) positioning.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_FixedLayout"/>

See section [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_GridLayout

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

*Referenced by:* [CT\_SummaryZoom](#Section_9ae06ed959434a969733c9f4cd3580e6)

A complex type that specifies the layout as a grid layout for a list of objects.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_GridLayout"/>

See section [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SummaryZoom

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

*Referenced by:* [summaryZm](#Section_68d01d06c23447b3b191af013beb1a19)

A complex type that specifies the [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) type as a Summary Zoom.

*Child Elements:*

**summaryZmObj:** A [CT\_SummaryZoomObject](#Section_9a9877dc4d074ee3a598108d34798095) element that specifies the object type as a Summary Zoom object.

**gridLayout:** A [CT\_GridLayout](#Section_cc991d0fdf434c0fbd0758ba8cadcfd0) element that specifies the layout as a grid layout for a list of objects.

**fixedLayout:** A [CT\_FixedLayout](#Section_921a4cfb4557435ab29f2e88354bdbd1) element that specifies the layout with user-defined Zoom positioning.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SummaryZoom">
2. <xsd:sequence>
3. <xsd:element name="summaryZmObj" type="CT\_SummaryZoomObject" minOccurs="0" maxOccurs="unbounded"/>
4. <xsd:choice minOccurs="1" maxOccurs="1">
5. <xsd:element name="gridLayout" type="CT\_GridLayout"/>
6. <xsd:element name="fixedLayout" type="CT\_FixedLayout"/>
7. </xsd:choice>
8. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
9. </xsd:sequence>
10. </xsd:complexType>

See section [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SummaryZoomObject

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom

*Referenced by:* [CT\_SummaryZoom](#Section_9ae06ed959434a969733c9f4cd3580e6)

A complex type that specifies the object type as a Summary [**Zoom**](#gt_8ee27f3b-c4c2-4a5d-bd29-4ae700d761b0) object.

*Child Elements:*

**zmPr:** A [CT\_ZoomObjectProperties](#Section_059e3722139d4e419841d53eecaf73f6) element that specifies Summary Zoom object properties.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the Zoom will be stored in the extension list.

*Attributes:*

**sectionId:** A s:ST\_Guid ([ISO/IEC29500-4:2016] section A.7.9) attribute that specifies the section ID that the Summary Zoom object links to.

**title:** An xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the Alt text title of the Summary Zoom object.

**descr:** An xsd:string ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies the Alt text description of the Summary Zoom object.

**offsetFactorX:** An a:ST\_Percentage ([ISO/IEC29500-4:2016] section 12.1.2.2) attribute that specifies the percentage that the object is offset on the x-axis from the default layout.

**offsetFactorY:** An a:ST\_Percentage ([ISO/IEC29500-4:2016] section 12.1.2.2) attribute that specifies the percentage that the object is offset on the y-axis from the default layout.

**scaleFactorX:** An a:ST\_Percentage ([ISO/IEC29500-4:2016] section 12.1.2.2) attribute that specifies the percentage that the object is scaled on the x-axis from the default layout.

**scaleFactorY:** An a:ST\_Percentage ([ISO/IEC29500-4:2016] section 12.1.2.2) attribute that specifies the percentage that the object is scaled on the y-axis from the default layout.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SummaryZoomObject">
2. <xsd:sequence>
3. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="sectionId" type="s:ST\_Guid" use="required"/>
7. <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
8. <xsd:attribute name="descr" type="xsd:string" use="optional" default=""/>
9. <xsd:attribute name="offsetFactorX" type="a:ST\_Percentage" use="optional" default="0"/>
10. <xsd:attribute name="offsetFactorY" type="a:ST\_Percentage" use="optional" default="0"/>
11. <xsd:attribute name="scaleFactorX" type="a:ST\_Percentage" use="optional" default="100000"/>
12. <xsd:attribute name="scaleFactorY" type="a:ST\_Percentage" use="optional" default="100000"/>
13. </xsd:complexType>

See section [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2013/main/command

### Elements

#### chgInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_ChangesInfo](#Section_3a926e8de9e8414f8d3243eb1c06e8e9) element that specifies the edits made to a PresentationML document.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="chgInfo" type="CT\_ChangesInfo"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### cmAuthorMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_CommentAuthorMonikerList](#Section_7e87d90d8bd6470a93a5fa94d6b292be) element that specifies the content moniker information associated with a comment author.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmAuthorMkLst" type="CT\_CommentAuthorMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### cmMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_CommentMonikerList](#Section_d571c9fdc88a4e2dbdad2440a9037792) element that specifies the content moniker information associated with a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmMkLst" type="CT\_CommentMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### docMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_DocumentMonikerList](#Section_ed04381212534f1290c33ce82d3f0d5b) element that specifies the content moniker information associated with a presentation document.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="docMkLst" type="CT\_DocumentMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sldBaseMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_SlideBaseMonikerList](#Section_58f4ec65823644719b13db325284e7d5) element that specifies the content moniker information associated with a presentation slide, a slide layout, a slide master, or a notes slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldBaseMkLst" type="CT\_SlideBaseMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sldLayoutMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_SlideLayoutMonikerList](#Section_949bfaebf18f4dbda124624ff4b4ef83) element that specifies the content moniker information associated with a slide layout.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldLayoutMkLst" type="CT\_SlideLayoutMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sldMasterMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A [CT\_MainMasterMonikerList](#Section_b5755c226f2248e3a773def01338004a) element that specifies the content moniker information associated with a master slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldMasterMkLst" type="CT\_MainMasterMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### sldMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A [CT\_SlideMonikerList](#Section_d50cf27ff9d4482b9c44076b2576ab75) element that specifies the content moniker information associated with a presentation slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="sldMkLst" type="CT\_SlideMonikerList"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_ChangesInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [chgInfo](#Section_6eb2db2955b94a908e6167c644cc2398)

A complex type that specifies metadata regarding the edits made to the document and the authors of those edits.

*Child Elements:*

**docChgLst:** A [CT\_DocumentChangesList](#Section_a941623fe7e64640914d5218e871520a) element that specifies metadata regarding the edits made to the document by a single user.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ChangesInfo">
2. <xsd:sequence>
3. <xsd:element name="docChgLst" type="CT\_DocumentChangesList" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentAuthorChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52)

A complex type that specifies the edits made to a comment author object.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies the metadata common to content model change descriptors.

**cmAuthorMkLst:** A [CT\_CommentAuthorMonikerList](#Section_7e87d90d8bd6470a93a5fa94d6b292be) element that specifies a content moniker that identifies the edited comment author object.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the comment author change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_CommentAuthorChangeBits](#Section_e372b4c65e934b0da12d589cbf478411) attribute that specifies the types of edits made to the comment author object.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentAuthorChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="cmAuthorMkLst" type="CT\_CommentAuthorMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
6. </xsd:sequence>
7. <xsd:attribute name="chg" type="ST\_CommentAuthorChangeBits" use="required"/>
8. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentAuthorMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a comment author.

*Attributes:*

**id:** An **xsd:unsignedInt** ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) attribute that specifies the ID of the comment author (see the **id** attribute in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.4.2).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentAuthorMoniker">
2. <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
3. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentAuthorMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_CommentAuthorChanges](#Section_0ffef3dc2d754541935f3241027c8b6c), [cmAuthorMkLst](#Section_bd43cdc4ca92419098fa33f5a430771a)

A complex type that specifies a list of content monikers that together uniquely identify a comment author in a document. The sequence of child elements MUST be a valid COMMENTAUTHORMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

COMMENTAUTHORMONIKERLIST = DOCUMENTMONIKERLIST (section [2.12.3.11](#Section_ed04381212534f1290c33ce82d3f0d5b)) COMMENTAUTHORMONIKER

COMMENTAUTHORMONIKER = pc:cmAuthorMk (section [2.12.3.3](#Section_a412123da30a44609f91a8accb376d55))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentAuthorMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideChanges](#Section_f30be7c1cdf8464e860f86add89a5734)

A complex type that specifies information about edits to a comment.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**cmMkLst:** A [CT\_CommentMonikerList](#Section_d571c9fdc88a4e2dbdad2440a9037792) element that specifies a content moniker that identifies the edited comment.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the comment change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_CommentChangeBits](#Section_d2de8b819fa04f53bb4c5ee650be8459) attribute that specifies the types of edits made to the comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="cmMkLst" type="CT\_CommentMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
6. </xsd:sequence>
7. <xsd:attribute name="chg" type="ST\_CommentChangeBits" use="required"/>
8. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a comment.

*Attributes:*

**authorId:** An **xsd:unsignedInt** ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.3.22) attribute that specifies the author of the comment. It refers to the ID of an author in the comment author list for the document (see the **authorId** attribute in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.4.1).

**idx:** A **p:ST\_Index** ([ISO/IEC29500-1:2016] section 19.7.3) attribute that specifies the unique index of the comment (see the **idx** attribute in [ISO/IEC29500-1:2016] section 19.4.1).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentMoniker">
2. <xsd:attribute name="authorId" type="xsd:unsignedInt" use="required"/>
3. <xsd:attribute name="idx" type="p:ST\_Index" use="required"/>
4. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_CommentChanges](#Section_60f3f3c7c57e441a8680b090eb45eadd), [cmMkLst](#Section_d620fd784d1945a1af6e2a90102ee2a8)

A complex type that specifies a list of content monikers that together uniquely identify a comment in a document. The sequence of child elements MUST be a valid COMMENTMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

COMMENTMONIKERLIST = SLIDEMONIKERLIST (section [2.12.3.21](#Section_d50cf27ff9d4482b9c44076b2576ab75)) COMMENTMONIKER

COMMENTMONIKER = pc:cmMk (section [2.12.3.6](#Section_49325f153fa74f5fbeec2697037a5754))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DocumentChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChangesList](#Section_a941623fe7e64640914d5218e871520a)

A complex type that specifies metadata about edits to the [**presentation**](#gt_a74c2f64-c512-41bc-9662-8168b2b0f5ae) document.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**docMkLst:** A [CT\_DocumentMonikerList](#Section_ed04381212534f1290c33ce82d3f0d5b) element that specifies a content moniker that identifies the edited document.

**sldChg:** A [CT\_SlideChanges](#Section_f30be7c1cdf8464e860f86add89a5734) element that specifies the edits made to a slide in the document.

**sldMasterChg:** A [CT\_MainMasterChanges](#Section_43853e6e564a4b8ba10a4f95b065c242) element that specifies the edits made to a master slide in the document.

**cmAuthorChg:** A [CT\_CommentAuthorChanges](#Section_0ffef3dc2d754541935f3241027c8b6c) element that specifies the edits made to a comment author data object in the document.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the document change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_DocumentChangeBits](#Section_a7336ccea9a0488ebfb852540c0bd624) attribute that specifies the types of edits made to the document.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DocumentChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="docMkLst" type="CT\_DocumentMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="sldChg" type="CT\_SlideChanges" minOccurs="0" maxOccurs="unbounded"/>
6. <xsd:element name="sldMasterChg" type="CT\_MainMasterChanges" minOccurs="0" maxOccurs="unbounded"/>
7. <xsd:element name="cmAuthorChg" type="CT\_CommentAuthorChanges" minOccurs="0" maxOccurs="unbounded"/>
8. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
9. </xsd:sequence>
10. <xsd:attribute name="chg" type="ST\_DocumentChangeBits" use="required"/>
11. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DocumentChangesList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_ChangesInfo](#Section_3a926e8de9e8414f8d3243eb1c06e8e9)

A complex type that specifies metadata regarding the edits made to the document by a single user.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies information about the user making the edits.

**docChg:** A [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52) element that specifies metadata regarding a single edit to the document.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the document changes list will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DocumentChangesList">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="docChg" type="CT\_DocumentChanges" minOccurs="0" maxOccurs="unbounded"/>
5. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
6. </xsd:sequence>
7. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DocumentMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a presentation document.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DocumentMoniker"/>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DocumentMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52), [docMkLst](#Section_6be9be326f6642e5a699a8946a98ab17)

A complex type that specifies a list of content monikers that together identify a presentation document. The sequence of child elements MUST be a valid DOCUMENTMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

DOCUMENTMONIKERLIST = DOCUMENTMONIKER

DOCUMENTMONIKER = pc:docMk (section [2.12.3.10](#Section_226710f6e8b4414c92152cbc52c0558b))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DocumentMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MainMasterChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52)

A complex type that specifies metadata about edits to a master slide.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**sldMasterMkLst:** A [CT\_MainMasterMonikerList](#Section_b5755c226f2248e3a773def01338004a) element that specifies a content moniker that identifies the edited master slide.

**spChg:** An **ac:CT\_ShapeChanges** ([MS-ODRAWXML] section 2.29.3.16) element that specifies the edits made to a shape on the master slide.

**grpChg:** An **ac:CT\_GroupShapeChanges** ([MS-ODRAWXML] section 2.29.3.7) element that specifies the edits made to a group shape on the master slide.

**graphicFrameChg:** An **ac:CT\_GraphicFrameChanges** ([MS-ODRAWXML] section 2.29.3.19) element that specifies the edits made to a graphic frame on the master slide.

**picChg:** An **ac:CT\_PictureChanges** ([MS-ODRAWXML] section 2.29.3.13) element that specifies the edits made to a picture on the master slide.

**inkChg:** An **ac:CT\_InkChanges** ([MS-ODRAWXML] section 2.29.3.10) element that specifies the edits made to an ink object on the master slide.

**cxnChg:** An **ac:CT\_ConnectorChanges** ([MS-ODRAWXML] section 2.29.3.2) element that specifies the edits made to a connector on the master slide.

**sldLayoutChg:** A [CT\_SlideLayoutChanges](#Section_35d5a88579f54ae2b5f32b8884286c44) element that specifies the edits made to a slide layout of the master slide.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the master slide change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_MainMasterChangeBits](#Section_20be4decb6784f9dac4106ac802f5b04) attribute that specifies the types of edits made to the master slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MainMasterChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="sldMasterMkLst" type="CT\_MainMasterMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
6. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
7. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
8. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
9. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
10. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
11. <xsd:element name="sldLayoutChg" type="CT\_SlideLayoutChanges" minOccurs="0" maxOccurs="unbounded"/>
12. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
13. </xsd:sequence>
14. <xsd:attribute name="chg" type="ST\_MainMasterChangeBits" use="required"/>
15. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MainMasterMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a master slide.

*Attributes:*

**cId:** An [ST\_CreationId](#Section_5f1ede0b7f9440f7949354ef37d2e36e) attribute that specifies the creation ID of the master slide (see section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)).

**sldId:** A **p:ST\_SlideMasterId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.16) attribute that specifies the identifier of the master slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MainMasterMoniker">
2. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
3. <xsd:attribute name="sldId" type="p:ST\_SlideMasterId" use="required"/>
4. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_MainMasterMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_MainMasterChanges](#Section_43853e6e564a4b8ba10a4f95b065c242), [sldMasterMkLst](#Section_f52fe394d2c348679b5051956df4aea2)

A complex type that specifies a list of content monikers that together uniquely identify a master slide in a document. The sequence of child elements MUST be a valid MAINMASTERMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

MAINMASTERMONIKERLIST = DOCUMENTMONIKERLIST (section [2.12.3.11](#Section_ed04381212534f1290c33ce82d3f0d5b)) MAINMASTERMONIKER

MAINMASTERMONIKER = pc:sldMasterMk (section [2.12.3.13](#Section_303c23565a324aafa02b04c463768dd2))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_MainMasterMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideBaseMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [sldBaseMkLst](#Section_0027d133910242569b79864275f183fa)

A complex type that specifies a list of content monikers that together uniquely identify an object in a document. The sequence of child elements MUST be a valid SLIDEBASEMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

SLIDEBASEMONIKERLIST = MAINMASTERMONIKERLIST (section [2.12.3.14](#Section_b5755c226f2248e3a773def01338004a)) / SLIDELAYOUTMONIKERLIST (section [2.12.3.19](#Section_949bfaebf18f4dbda124624ff4b4ef83)) / SLIDEMONIKERLIST (section [2.12.3.21](#Section_d50cf27ff9d4482b9c44076b2576ab75))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideBaseMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52)

A complex type that specifies information about edits to a slide.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**sldMkLst:** A [CT\_SlideMonikerList](#Section_d50cf27ff9d4482b9c44076b2576ab75) element that specifies a content moniker that identifies the edited slide.

**spChg:** An **ac:CT\_ShapeChanges** ([MS-ODRAWXML] section 2.29.3.16) element that specifies the edits made to a shape on the slide.

**grpChg:** An **ac:CT\_GroupShapeChanges** ([MS-ODRAWXML] section 2.29.3.7) element that specifies the edits made to a group shape on the slide.

**graphicFrameChg:** An **ac:CT\_GraphicFrameChanges** ([MS-ODRAWXML] section 2.29.3.19) element that specifies the edits made to a graphic frame on the slide.

**picChg:** An **ac:CT\_PictureChanges** ([MS-ODRAWXML] section 2.29.3.13) element that specifies the edits made to a picture on the slide.

**inkChg:** An **ac:CT\_InkChanges** ([MS-ODRAWXML] section 2.29.3.10) element that specifies the edits made to an ink object on the slide.

**cxnChg:** An **ac:CT\_ConnectorChanges** ([MS-ODRAWXML] section 2.29.3.2) element that specifies the edits made to a connector on the slide.

**cmChg:** A [CT\_CommentChanges](#Section_60f3f3c7c57e441a8680b090eb45eadd) element that specifies the edits made to a comment on the slide.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the slide change descriptor will be stored in the extension list

*Attributes:*

**chg:** An [ST\_SlideChangeBits](#Section_1e0f8fda550244c2910b98e7cc5be149) attribute that specifies the types of edits made to the slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="sldMkLst" type="CT\_SlideMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
6. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
7. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
8. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
9. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
10. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
11. <xsd:element name="cmChg" type="CT\_CommentChanges" minOccurs="0" maxOccurs="unbounded"/>
12. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
13. </xsd:sequence>
14. <xsd:attribute name="chg" type="ST\_SlideChangeBits" use="required"/>
15. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideLayoutChanges

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_MainMasterChanges](#Section_43853e6e564a4b8ba10a4f95b065c242)

A complex type that specifies the metadata about edits to a slide layout.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**sldLayoutMkLst:** A [CT\_SlideLayoutMonikerList](#Section_949bfaebf18f4dbda124624ff4b4ef83) element that specifies a content moniker that identifies the edited slide layout.

**spChg:** An **ac:CT\_ShapeChanges** ([MS-ODRAWXML] section 2.29.3.16) element that specifies the edits made to a shape on the slide layout.

**grpChg:** An **ac:CT\_GroupShapeChanges** ([MS-ODRAWXML] section 2.29.3.7) element that specifies the edits made to a group shape on the slide layout.

**graphicFrameChg:** An **ac:CT\_GraphicFrameChanges** ([MS-ODRAWXML] section 2.29.3.19) element that specifies the edits made to a graphic frame on the slide layout.

**picChg:** An **ac:CT\_PictureChanges** ([MS-ODRAWXML] section 2.29.3.13) element that specifies the edits made to a picture on the slide layout.

**inkChg:** An **ac:CT\_InkChanges** ([MS-ODRAWXML] section 2.29.3.10) element that specifies the edits made to an ink object on the slide layout.

**cxnChg:** An **ac:CT\_ConnectorChanges** ([MS-ODRAWXML] section 2.29.3.2) element that specifies the edits made to a connector on the slide layout.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the extension list. All future extensions to the slide layout change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_SlideLayoutChangeBits](#Section_c54bc9dd74564451ace43e49778fcbb6) attribute that specifies the types of edits made to the slide layout.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideLayoutChanges">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="sldLayoutMkLst" type="CT\_SlideLayoutMonikerList" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
6. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
7. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
8. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
9. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
10. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
11. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
12. </xsd:sequence>
13. <xsd:attribute name="chg" type="ST\_SlideLayoutChangeBits" use="required"/>
14. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideLayoutMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a slide layout.

*Attributes:*

**cId:** An [ST\_CreationId](#Section_5f1ede0b7f9440f7949354ef37d2e36e) attribute that specifies the creation ID of the slide layout (see section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)).

**sldId:** A **p:ST\_SlideLayoutId** ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.7.14) attribute that specifies the identifier of the slide layout.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideLayoutMoniker">
2. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
3. <xsd:attribute name="sldId" type="p:ST\_SlideLayoutId" use="required"/>
4. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideLayoutMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideLayoutChanges](#Section_35d5a88579f54ae2b5f32b8884286c44), [sldLayoutMkLst](#Section_f8db812bbd464108b4ac43be4b38d7c5)

A complex type that specifies a list of content monikers that together uniquely identify a slide layout in a document. The sequence of child elements MUST be a valid SLIDELAYOUTMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

SLIDELAYOUTMONIKERLIST = MAINMASTERMONIKERLIST (section [2.12.3.14](#Section_b5755c226f2248e3a773def01338004a)) SLIDELAYOUTMONIKER

SLIDELAYOUTMONIKER = pc:sldLayoutMk (section [2.12.3.18](#Section_43403201bae74d5bbcbde2b0d6a3b08a))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideLayoutMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideMoniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

A complex type that specifies the content moniker information associated with a slide.

*Attributes:*

**cId:** An [ST\_CreationId](#Section_5f1ede0b7f9440f7949354ef37d2e36e) attribute that specifies the creation ID of the slide (see section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)).

**sldId:** A **p:ST\_SlideId** ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) attribute that specifies the identifier of the slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideMoniker">
2. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
3. <xsd:attribute name="sldId" type="p:ST\_SlideId" use="required"/>
4. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_SlideMonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideChanges](#Section_f30be7c1cdf8464e860f86add89a5734), [sldMkLst](#Section_d0abca56c6b74df8bfd3def71f2d61d9), [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A complex type that specifies a list of content monikers that together uniquely identify a slide in a document. The sequence of child elements MUST be a valid SLIDEMONIKERLIST as specified in the following ABNF (specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)) grammar.

SLIDEMONIKERLIST = DOCUMENTMONIKERLIST (section [2.12.3.11](#Section_ed04381212534f1290c33ce82d3f0d5b)) SLIDEMONIKER

SLIDEMONIKER = pc:sldMk (section [2.12.3.20](#Section_856b398e1b9946c7aba1d26043ba7968))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_SlideMonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_CommentAuthorChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_CommentAuthorChangeBits](#Section_e372b4c65e934b0da12d589cbf478411)

A simple type specifying the edit made to the comment author.

| Value | Meaning |
| --- | --- |
| add | Comment Author: Add |
| del | Comment Author: Delete |
| mod | Comment Author: Modify |
| replId | Comment Author ID: Replace |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentAuthorChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="add"/>
4. <xsd:enumeration value="del"/>
5. <xsd:enumeration value="mod"/>
6. <xsd:enumeration value="replId"/>
7. </xsd:restriction>
8. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentAuthorChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_CommentAuthorChanges](#Section_0ffef3dc2d754541935f3241027c8b6c)

A simple type specifying a list of changes to a comment author.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentAuthorChangeBits">
2. <xsd:list itemType="ST\_CommentAuthorChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_CommentChangeBits](#Section_d2de8b819fa04f53bb4c5ee650be8459)

A simple type specifying the edit made to the comment.

| Value | Meaning |
| --- | --- |
| add | Comment: Add |
| del | Comment: Delete |
| mod | Comment: Modify |
| replId | Comment ID: Modify |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="add"/>
4. <xsd:enumeration value="del"/>
5. <xsd:enumeration value="mod"/>
6. <xsd:enumeration value="replId"/>
7. </xsd:restriction>
8. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_CommentChanges](#Section_60f3f3c7c57e441a8680b090eb45eadd)

A simple type specifying a list of changes to a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentChangeBits">
2. <xsd:list itemType="ST\_CommentChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CreationId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideMoniker](#Section_856b398e1b9946c7aba1d26043ba7968), [CT\_MainMasterMoniker](#Section_303c23565a324aafa02b04c463768dd2), [CT\_SlideLayoutMoniker](#Section_43403201bae74d5bbcbde2b0d6a3b08a)

A simple type that specifies the creation ID of a slide, master slide, or slide layout (see section [2.3.1.4](#Section_82a107ddbeeb46468bd248f433e1d62e)).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CreationId">
2. <xsd:restriction base="xsd:unsignedInt"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_DocumentChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_DocumentChangeBits](#Section_a7336ccea9a0488ebfb852540c0bd624)

A simple type specifying the edit made to the document.

| Value | Meaning |
| --- | --- |
| undo | Undo |
| redo | Redo |
| ext | External |
| custSel | Custom Selection |
| mod | Document: Modify |
| addSld | Add Slide |
| delSld | Delete Slide |
| modSld | Modify Slide |
| sldOrd | Modify Slide Order |
| addMainMaster | Add Main Slide Master |
| delMainMaster | Delete Main Slide Master |
| modMainMaster | Modify Main Slide Master |
| mainMasterOrd | Reorder Main Slide Master |
| addSection | Add Section |
| delSection | Delete Section |
| modSection | Modify Section |
| addCmAuthor | Add Comment Author |
| delCmAuthor | Delete Comment Author |
| modCmAuthor | Modify Comment Author |
| replTag | Replace String Tag |
| delTag | Delete String Tag |
| addCustShow | Add Custom Show |
| delCustShow | Delete Custom Show |
| modCustShow | Modify Custom Show |
| modNotesMaster | Modify Notes Master |
| modHandout | Modify Handouts Master |
| modShowInfo | Modify Show Info |
| addOsfTaskPaneApp | Add Task Pane App Content |
| delOsfTaskPaneApp | Delete Task Pane App Content |
| setSldSz | Set Slide Size |
| modRtl | Modify Right-to-Left properties |
| modChgInfo | Modify Changes Info |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_DocumentChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="undo"/>
4. <xsd:enumeration value="redo"/>
5. <xsd:enumeration value="ext"/>
6. <xsd:enumeration value="custSel"/>
7. <xsd:enumeration value="mod"/>
8. <xsd:enumeration value="addSld"/>
9. <xsd:enumeration value="delSld"/>
10. <xsd:enumeration value="modSld"/>
11. <xsd:enumeration value="sldOrd"/>
12. <xsd:enumeration value="addMainMaster"/>
13. <xsd:enumeration value="delMainMaster"/>
14. <xsd:enumeration value="modMainMaster"/>
15. <xsd:enumeration value="mainMasterOrd"/>
16. <xsd:enumeration value="addSection"/>
17. <xsd:enumeration value="delSection"/>
18. <xsd:enumeration value="modSection"/>
19. <xsd:enumeration value="addCmAuthor"/>
20. <xsd:enumeration value="delCmAuthor"/>
21. <xsd:enumeration value="modCmAuthor"/>
22. <xsd:enumeration value="replTag"/>
23. <xsd:enumeration value="delTag"/>
24. <xsd:enumeration value="addCustShow"/>
25. <xsd:enumeration value="delCustShow"/>
26. <xsd:enumeration value="modCustShow"/>
27. <xsd:enumeration value="modNotesMaster"/>
28. <xsd:enumeration value="modHandout"/>
29. <xsd:enumeration value="modShowInfo"/>
30. <xsd:enumeration value="addOsfTaskPaneApp"/>
31. <xsd:enumeration value="delOsfTaskPaneApp"/>
32. <xsd:enumeration value="setSldSz"/>
33. <xsd:enumeration value="modRtl"/>
34. <xsd:enumeration value="modChgInfo"/>
35. </xsd:restriction>
36. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_DocumentChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_DocumentChanges](#Section_6a7a3a69769f40778b40698fe00b7c52)

A simple type specifying a list of edits to a presentation.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_DocumentChangeBits">
2. <xsd:list itemType="ST\_DocumentChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_MainMasterChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_MainMasterChangeBits](#Section_20be4decb6784f9dac4106ac802f5b04)

An enumeration specifying the edit made to the Main Master.

| Value | Meaning |
| --- | --- |
| addSp | Add Shape |
| delSp | Delete Shape |
| modSp | Modify Shape |
| spOrd | Reorder Shape |
| new | New |
| add | Add |
| del | Delete |
| mod | Modify |
| ord | Reorder |
| replId | Replace ID |
| modTransition | Modify Transition |
| modMedia | Modify Media |
| setBg | Set Background |
| setFolMasterAnim | Set Follow Master Animations |
| setFolMasterObjs | Set Follow Master Objects |
| modClrScheme | Modify Color Scheme |
| addAnim | Add Animation |
| delAnim | Delete Animation |
| modAnim | Modify Animation |
| replTag | Replace String Tag |
| delTag | Delete String Tag |
| setClrOvrMap | Set Color Override Map |
| delDesignElem | Delete Design Element |
| modShow | Modify Show/Hide information |
| addSldLayout | Add Slide Layout |
| delSldLayout | Delete Slide Layout |
| modSldLayout | Modify Slide Layout |
| sldLayoutOrd | Reorder Slide Layout |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_MainMasterChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="addSp"/>
4. <xsd:enumeration value="delSp"/>
5. <xsd:enumeration value="modSp"/>
6. <xsd:enumeration value="spOrd"/>
7. <xsd:enumeration value="new"/>
8. <xsd:enumeration value="add"/>
9. <xsd:enumeration value="del"/>
10. <xsd:enumeration value="mod"/>
11. <xsd:enumeration value="ord"/>
12. <xsd:enumeration value="replId"/>
13. <xsd:enumeration value="modTransition"/>
14. <xsd:enumeration value="modMedia"/>
15. <xsd:enumeration value="setBg"/>
16. <xsd:enumeration value="setFolMasterAnim"/>
17. <xsd:enumeration value="setFolMasterObjs"/>
18. <xsd:enumeration value="modClrScheme"/>
19. <xsd:enumeration value="addAnim"/>
20. <xsd:enumeration value="delAnim"/>
21. <xsd:enumeration value="modAnim"/>
22. <xsd:enumeration value="replTag"/>
23. <xsd:enumeration value="delTag"/>
24. <xsd:enumeration value="setClrOvrMap"/>
25. <xsd:enumeration value="delDesignElem"/>
26. <xsd:enumeration value="modShow"/>
27. <xsd:enumeration value="addSldLayout"/>
28. <xsd:enumeration value="delSldLayout"/>
29. <xsd:enumeration value="modSldLayout"/>
30. <xsd:enumeration value="sldLayoutOrd"/>
31. </xsd:restriction>
32. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_MainMasterChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_MainMasterChanges](#Section_43853e6e564a4b8ba10a4f95b065c242)

A simple type specifying a list of edits to a master slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_MainMasterChangeBits">
2. <xsd:list itemType="ST\_MainMasterChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_SlideChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_SlideChangeBits](#Section_1e0f8fda550244c2910b98e7cc5be149)

A simple type specifying the edit made to the slide.

| Value | Meaning |
| --- | --- |
| addSp | Add Shape |
| delSp | Delete Shape |
| modSp | Modify Shape |
| spOrd | Reorder Shape |
| new | New |
| add | Add |
| del | Delete |
| mod | Modify |
| ord | Reorder |
| replId | Replace ID |
| modTransition | Modify Transition |
| modMedia | Modify Media |
| setBg | Set Background |
| setFolMasterAnim | Set Follow Master Animation |
| setFolMasterObjs | Set Follow Master Object |
| modClrScheme | Modify Color Scheme |
| addAnim | Add Animation |
| delAnim | Delete Animation |
| modAnim | Modify Animation |
| replTag | Replace String Tag |
| delTag | Delete String Tag |
| setClrOvrMap | Set Color Override map |
| delDesignElem | Delete Design Element |
| modShow | Modify Show/hide info |
| addCm | Add comment |
| delCm | Delete comment |
| modCm | Modify comment |
| chgLayout | Change Layout |
| modNotes | Modify Speaker Notes |
| modNotesTx | Modify Speaker Notes Text |
| setSldSyncInfo | Set Slide Sync info |
| newSectionLinks | New Section Links |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_SlideChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="addSp"/>
4. <xsd:enumeration value="delSp"/>
5. <xsd:enumeration value="modSp"/>
6. <xsd:enumeration value="spOrd"/>
7. <xsd:enumeration value="new"/>
8. <xsd:enumeration value="add"/>
9. <xsd:enumeration value="del"/>
10. <xsd:enumeration value="mod"/>
11. <xsd:enumeration value="ord"/>
12. <xsd:enumeration value="replId"/>
13. <xsd:enumeration value="modTransition"/>
14. <xsd:enumeration value="modMedia"/>
15. <xsd:enumeration value="setBg"/>
16. <xsd:enumeration value="setFolMasterAnim"/>
17. <xsd:enumeration value="setFolMasterObjs"/>
18. <xsd:enumeration value="modClrScheme"/>
19. <xsd:enumeration value="addAnim"/>
20. <xsd:enumeration value="delAnim"/>
21. <xsd:enumeration value="modAnim"/>
22. <xsd:enumeration value="replTag"/>
23. <xsd:enumeration value="delTag"/>
24. <xsd:enumeration value="setClrOvrMap"/>
25. <xsd:enumeration value="delDesignElem"/>
26. <xsd:enumeration value="modShow"/>
27. <xsd:enumeration value="addCm"/>
28. <xsd:enumeration value="delCm"/>
29. <xsd:enumeration value="modCm"/>
30. <xsd:enumeration value="chgLayout"/>
31. <xsd:enumeration value="modNotes"/>
32. <xsd:enumeration value="modNotesTx"/>
33. <xsd:enumeration value="setSldSyncInfo"/>
34. <xsd:enumeration value="newSectionLinks"/>
35. </xsd:restriction>
36. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_SlideChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideChanges](#Section_f30be7c1cdf8464e860f86add89a5734)

A simple type specifying a list of edits to a slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_SlideChangeBits">
2. <xsd:list itemType="ST\_SlideChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_SlideLayoutChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [ST\_SlideLayoutChangeBits](#Section_c54bc9dd74564451ace43e49778fcbb6)

An enumeration specifying the type of edit made to a slide layout.

| Value | Meaning |
| --- | --- |
| addSp | Shape: Add |
| delSp | Shape: Delete |
| modSp | Shape: Modify |
| spOrd | Shape: Modify Order |
| new | Slide: New |
| add | Slide: Add |
| del | Slide: Delete |
| mod | Slide: Modify |
| ord | Slide: Reorder |
| replId | Slide: Replace ID |
| modTransition | Slide: Modify Transition |
| modMedia | Slide: Modify Media |
| setBg | Slide: Set Background |
| setFolMasterAnim | Slide: Set Follow Master Animations |
| setFolMasterObjs | Slide: Set Follow Master Objects |
| modClrScheme | Slide: Modify Color Scheme |
| addAnim | Slide: Add Animation |
| delAnim | Slide: Delete Animation |
| modAnim | Slide: Modify Animation |
| replTag | Slide: Replace String Tag |
| delTag | Slide: Delete String Tag |
| setClrOvrMap | Slide: Set Color override mapping |
| delDesignElem | Slide: Delete Design Element |
| modShow | Slide: Modify show/hide properties |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_SlideLayoutChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="addSp"/>
4. <xsd:enumeration value="delSp"/>
5. <xsd:enumeration value="modSp"/>
6. <xsd:enumeration value="spOrd"/>
7. <xsd:enumeration value="new"/>
8. <xsd:enumeration value="add"/>
9. <xsd:enumeration value="del"/>
10. <xsd:enumeration value="mod"/>
11. <xsd:enumeration value="ord"/>
12. <xsd:enumeration value="replId"/>
13. <xsd:enumeration value="modTransition"/>
14. <xsd:enumeration value="modMedia"/>
15. <xsd:enumeration value="setBg"/>
16. <xsd:enumeration value="setFolMasterAnim"/>
17. <xsd:enumeration value="setFolMasterObjs"/>
18. <xsd:enumeration value="modClrScheme"/>
19. <xsd:enumeration value="addAnim"/>
20. <xsd:enumeration value="delAnim"/>
21. <xsd:enumeration value="modAnim"/>
22. <xsd:enumeration value="replTag"/>
23. <xsd:enumeration value="delTag"/>
24. <xsd:enumeration value="setClrOvrMap"/>
25. <xsd:enumeration value="delDesignElem"/>
26. <xsd:enumeration value="modShow"/>
27. </xsd:restriction>
28. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_SlideLayoutChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2013/main/command

*Referenced by:* [CT\_SlideLayoutChanges](#Section_35d5a88579f54ae2b5f32b8884286c44)

A simple type specifying a list of changes to a slide layout.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_SlideLayoutChangeBits">
2. <xsd:list itemType="ST\_SlideLayoutChangeBit"/>
3. </xsd:simpleType>

See section [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2017/3/main

### Elements

#### tracksInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/3/main

A [CT\_TracksInfo](#Section_6ef28bd41b5e4aa1b637174ddd9ea31b) element that specifies the properties of the tracks for a media object.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="tracksInfo" type="CT\_TracksInfo"/>

See section [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_Track

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/3/main

*Referenced by:* [CT\_TrackList](#Section_f57b08e41bf8444d883ecf9d058d6ef0)

A complex type that specifies a caption file.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.7.9) attribute that specifies a uniquely generated ID to identify the track.

**label:** A xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies a label for the track.

**lang:** An a:ST\_TextLanguageID ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section A.5.1) attribute that specifies the language of the track.

**r:embed:** A **r:ST\_RelationshipId** ([ISO/IEC29500-4:2016] section A.7.8) attribute that specifies the relationship identifier that is used to determine the location of the media if it is embedded in the document. The **r:embed** attribute MUST be present if the **r:link** attribute is not present. If both the **r:embed** and **r:link** attributes are present, the **r:link** attribute takes precedence.

**r:link:** A **r:ST\_RelationshipId** ([ISO/IEC29500-4:2016] section A.7.8) attribute that specifies the relationship identifier that is used to determine the location of the media if it is linked from the document. The **r:link** attribute MUST be present if the **r:embed** attribute is not present. If both the **r:link** and **r:embed** attributes are present, the **r:link** attribute takes precedence.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Track">
2. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
3. <xsd:attribute name="label" type="xsd:string" use="required"/>
4. <xsd:attribute name="lang" type="a:ST\_TextLanguageID" use="optional"/>
5. <xsd:attributeGroup ref="a:AG\_Blob"/>
6. </xsd:complexType>

See section [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TrackList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/3/main

*Referenced by:* [CT\_TracksInfo](#Section_6ef28bd41b5e4aa1b637174ddd9ea31b)

A complex type that specifies a list of tracks.

*Child Elements:*

**track:** A [CT\_Track](#Section_d6e01ce691b3406588d4257fca7eb817) element that specifies a caption associated with a media object.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TrackList">
2. <xsd:sequence>
3. <xsd:element name="track" type="CT\_Track" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TracksInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/3/main

*Referenced by:* [tracksInfo](#Section_b115e940574e4149981fff44674b4d90)

A complex type that specifies the information for all tracks associated with a media object.

*Child Elements:*

**trackLst:** A [CT\_TrackList](#Section_f57b08e41bf8444d883ecf9d058d6ef0) element that specifies a list of the tracks for a given media.

*Attributes:*

**displayLoc:** An [ST\_DisplayLocation](#Section_252c463b78cf4944868eb3608ad20ec2) attribute that specifies where a track is displayed.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TracksInfo">
2. <xsd:sequence>
3. <xsd:element name="trackLst" type="CT\_TrackList" minOccurs="0" maxOccurs="1"/>
4. </xsd:sequence>
5. <xsd:attribute name="displayLoc" type="ST\_DisplayLocation" use="required"/>
6. </xsd:complexType>

See section [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_DisplayLocation

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/3/main

*Referenced by:* [CT\_TracksInfo](#Section_6ef28bd41b5e4aa1b637174ddd9ea31b)

A simple type that specifies where a track for a media object is displayed.

| Value | Meaning |
| --- | --- |
| media | The track is displayed on the media. |
| slide | The track is displayed on the slide. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_DisplayLocation">
2. <xsd:restriction base="xsd:string">
3. <xsd:enumeration value="media"/>
4. <xsd:enumeration value="slide"/>
5. </xsd:restriction>
6. </xsd:simpleType>

See section [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2017/10/main

### Elements

#### readonlyRecommended

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/10/main

A [CT\_ReadonlyRecommended](#Section_6e6f991a57a242989599969a766d09d9) element that specifies whether the document is opened as read-only with the option to edit.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="readonlyRecommended" type="CT\_ReadonlyRecommended"/>

See section [5.11](#Section_28180d300176416fbaf72212d5dd0c48) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_ReadonlyRecommended

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2017/10/main

*Referenced by:* [readonlyRecommended](#Section_0891d9737290493a9cb29aa20ccf73dc)

A complex type that specifies whether the document is opened as read-only with the option to edit.

*Attributes:*

**val:** A xsd:boolean ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies whether the document is opened in read-only with the option to edit.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ReadonlyRecommended">
2. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
3. </xsd:complexType>

See section [5.11](#Section_28180d300176416fbaf72212d5dd0c48) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2018/4/main

### Elements

#### classification

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/4/main

A [CT\_ClassificationOutcome](#Section_2af7e74f572b4e3f89484e5688bf84f3) element that specifies whether an item is a classification element. See section 2.15.3.1 for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="classification" type="CT\_ClassificationOutcome"/>

See section [5.13](#Section_e34b98f194c043f7af1083a0c8a0a03b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_ClassificationOutcome

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/4/main

*Referenced by:* [classification](#Section_6c6752260e114d0da8190f08d12d2059)

A complex type that specifies classification element extensions to the **CT\_ApplicationNonVisualDrawingProps** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3).[<33>](#Appendix_A_33" \o "Product behavior note 33)

*Attributes:*

**val:** An [ST\_ClassificationOutcomeType](#Section_b87dffd5aca546f4b403d8cead97ba9f) attribute that specifies whether an element is a classification element.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ClassificationOutcome">
2. <xsd:attribute name="val" type="ST\_ClassificationOutcomeType"/>
3. </xsd:complexType>

See section [5.13](#Section_e34b98f194c043f7af1083a0c8a0a03b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_ClassificationOutcomeType

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/4/main

*Referenced by:* [CT\_ClassificationOutcome](#Section_2af7e74f572b4e3f89484e5688bf84f3)

A simple type specifying the content classification outcome type.

| Value | Meaning |
| --- | --- |
| none | No classification outcome. |
| hdr | Header classification outcome. |
| ftr | Footer classification outcome. |
| watermark | Watermark classification outcome. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_ClassificationOutcomeType">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="none"/>
4. <xsd:enumeration value="hdr"/>
5. <xsd:enumeration value="ftr"/>
6. <xsd:enumeration value="watermark"/>
7. </xsd:restriction>
8. </xsd:simpleType>

See section [5.13](#Section_e34b98f194c043f7af1083a0c8a0a03b) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2018/8/main

### Elements

#### authorLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

A [CT\_AuthorList](#Section_6803a0b3b5be48d681a15f4d1b9aca9e) element that specifies a list of authors.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="authorLst" type="CT\_AuthorList"/>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### cmLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

A [CT\_CommentList](#Section_257fcc752a1b4161a7112da453474b0f) element that specifies a list of comments.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmLst" type="CT\_CommentList"/>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### commentRel

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

A [CT\_CommentRelationship](#Section_7083d007807f4b0eb97da331d3fc2b82) element that specifies a relationship to a **Comment Part** (section [2.1.5](#Section_b85a9293bdca4c6ba5548f3918db9791)).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="commentRel" type="CT\_CommentRelationship"/>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_Author

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_AuthorList](#Section_6803a0b3b5be48d681a15f4d1b9aca9e)

A complex type that specifies information about an author.

*Child Elements:*

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to author will be stored in the extension list.

*Attributes:*

**id:** An [ST\_AuthorId](#Section_30fd68c67eb5479cacf773632431b459) attribute that specifies the ID of the author.

**name:** An xsd:string ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.1) attribute that specifies name of the author.

**initials:** An xsd:string ([XMLSCHEMA2] section 3.2.1) attribute that specifies initials of the author.

**userId:** An xsd:string ([XMLSCHEMA2] section 3.2.1) attribute that specifies a unique user id for the author as specified in **CT\_PresenceInfo** (section [2.4.3.7](#Section_04553ed32f834ec38e2ed41c46979e94)).

**providerId:** An xsd:string ([XMLSCHEMA2] section 3.2.1) attribute that specifies the identity provider that produced the userId attribute as specified in **CT\_PresenceInfo** (section 2.4.3.7).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Author">
2. <xsd:sequence>
3. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
4. </xsd:sequence>
5. <xsd:attribute name="id" type="ST\_AuthorId" use="required"/>
6. <xsd:attribute name="name" type="xsd:string" use="required"/>
7. <xsd:attribute name="initials" type="xsd:string" use="optional"/>
8. <xsd:attribute name="userId" type="xsd:string" use="required"/>
9. <xsd:attribute name="providerId" type="xsd:string" use="required"/>
10. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_AuthorList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [authorLst](#Section_8df7f6eda77c4be9968233a696291737)

A complex type that specifies a list of authors.

*Child Elements:*

**author:** A [CT\_Author](#Section_aaddcddb47d6434fab9c9feca81ff776) element that specifies an author.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_AuthorList">
2. <xsd:sequence>
3. <xsd:element name="author" type="CT\_Author" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_Comment

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_CommentList](#Section_257fcc752a1b4161a7112da453474b0f)

A complex type that specifies a comment.

*Child Elements:*

**pc:sldMkLst:** A [CT\_SlideMonikerList](#Section_d50cf27ff9d4482b9c44076b2576ab75) element that specifies a content moniker that identifies the slide to which the comment is anchored.

**ac:deMkLst:** An ac:CT\_DrawingElementMonikerList ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.20) element that specifies a content moniker that identifies the drawing element to which the comment is anchored.

**ac:txMkLst:** An ac:CT\_TextCharRangeMonikerList ([MS-ODRAWXML] section 2.29.3.21) element that specifies a content moniker that identifies the text character range to which the comment is anchored.

**unknownAnchor:** A [CT\_CommentUnknownAnchor](#Section_a9085f481f4f4a43ac93ecbc91ae1af6) element that specifies an unknown anchor to which the comment is anchored.

**pos:** An a:CT\_Point2D ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.4.1) element that specifies the position of the comment, relative to the top-left corner of the first object to which the comment is anchored.

**replyLst:** A [CT\_CommentReplyList](#Section_a745f2b0708949049fa3587a094bd136) element that specifies the list of replies to the comment.

**txBody:** An a:CT\_TextBody ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section A.4.1) element that specifies the text of a comment or a comment reply.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies a list of extensions for a comment or a comment reply.

*Attributes:*

**id:** An [ST\_CommentId](#Section_f0ba269321184d2182aabab8680c5cde) attribute that specifies the ID of a comment or a comment reply.

**authorId:** An [ST\_AuthorId](#Section_30fd68c67eb5479cacf773632431b459) attribute that specifies the author ID of a comment or a comment reply.

**status:** An [ST\_CommentStatus](#Section_bd806e3a96cf43aa961881b317c34c61) attribute that specifies the status of a comment or a comment reply.

**created:** An xsd:dateTime ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.7) attribute that specifies the date time when the comment or comment reply is created.

**startDate:** An xsd:dateTime ([XMLSCHEMA2] section 3.2.7) attribute that specifies start date of the comment.

**dueDate:** A xsd:dateTime ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.7) attribute that specifies due date of the comment.

**assignedTo:** An [ST\_AuthorIdList](#Section_4b4828f373284cbdb046a410870e05bb) attribute that specifies a list of authors to whom the comment is assigned.

**complete:** An s:ST\_PositiveFixedPercentage ([ISO/IEC-29500-4] section A.7.9) attribute that specifies the completion percentage of the comment.

**title:** A xsd:string ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies the title for a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Comment">
2. <xsd:sequence>
3. <xsd:group ref="EG\_CommentAnchor" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="pos" type="a:CT\_Point2D" minOccurs="0" maxOccurs="1"/>
5. <xsd:element name="replyLst" type="CT\_CommentReplyList" minOccurs="0" maxOccurs="1"/>
6. <xsd:group ref="EG\_CommentProperties" minOccurs="1" maxOccurs="1"/>
7. </xsd:sequence>
8. <xsd:attributeGroup ref="AG\_CommentProperties"/>
9. <xsd:attribute name="startDate" type="xsd:dateTime" use="optional"/>
10. <xsd:attribute name="dueDate" type="xsd:dateTime" use="optional"/>
11. <xsd:attribute name="assignedTo" type="ST\_AuthorIdList" use="optional" default=""/>
12. <xsd:attribute name="complete" type="s:ST\_PositiveFixedPercentage" default="0%" use="optional"/>
13. <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
14. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [cmLst](#Section_653f8a0b01d4446394d42c4fc2fe6bb2)

A complex type that specifies a list of comments.

*Child Elements:*

**cm:** A [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54) element that specifies a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentList">
2. <xsd:sequence>
3. <xsd:element name="cm" type="CT\_Comment" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentRelationship

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [commentRel](#Section_c0f70c68e456452bb6fe6ff6bc36bd90)

A complex type that specifies a relationship to **Comment Part** (section [2.1.5](#Section_b85a9293bdca4c6ba5548f3918db9791)).

*Attributes:*

**r:id:** A r:ST\_RelationshipId ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.8) attribute that specifies the ID of the relationship.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentRelationship">
2. <xsd:attribute ref="r:id" use="required"/>
3. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentReply

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_CommentReplyList](#Section_a745f2b0708949049fa3587a094bd136)

A complex type that specifies a comment reply.

*Child Elements:*

**txBody:** An a:CT\_TextBody ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section A.4.1) element that specifies the text of a comment or a comment reply.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies a list of extensions for a comment or a comment reply.

*Attributes:*

**id:** An [ST\_CommentId](#Section_f0ba269321184d2182aabab8680c5cde) attribute that specifies the ID of a comment or a comment reply.

**authorId:** An [ST\_AuthorId](#Section_30fd68c67eb5479cacf773632431b459) attribute that specifies the author ID of a comment or a comment reply.

**status:** An [ST\_CommentStatus](#Section_bd806e3a96cf43aa961881b317c34c61) attribute that specifies the status of a comment or a comment reply.

**created:** An xsd:dateTime ([[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.7) attribute that specifies the date time when the comment or comment reply is created.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentReply">
2. <xsd:sequence>
3. <xsd:group ref="EG\_CommentProperties" minOccurs="1" maxOccurs="1"/>
4. </xsd:sequence>
5. <xsd:attributeGroup ref="AG\_CommentProperties"/>
6. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentReplyList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A complex type that specifies a list of comment replies.

*Child Elements:*

**reply:** A [CT\_CommentReply](#Section_bcc2b4ae75714ecc8e94982f69f793db) element that specifies a comment reply.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentReplyList">
2. <xsd:sequence>
3. <xsd:element name="reply" type="CT\_CommentReply" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentUnknownAnchor

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A complex type that specifies an unknown comment anchor type for future extension.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentUnknownAnchor"/>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_AuthorId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_ReactionInstance](#Section_ecc60fbd0a524f9dbb65c2dca088824d), [CT\_TaskAssignUnassignUser](#Section_a53798916a5b471d95281a86bcc42100), [CT\_Author](#Section_aaddcddb47d6434fab9c9feca81ff776), [CT\_CommentReply](#Section_bcc2b4ae75714ecc8e94982f69f793db), [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54), [ST\_AuthorIdList](#Section_4b4828f373284cbdb046a410870e05bb)

A simple type that specifies the ID of an author.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_AuthorId">
2. <xsd:restriction base="s:ST\_Guid"/>
3. </xsd:simpleType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_AuthorIdList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A simple type that specifies a list of author IDs.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_AuthorIdList">
2. <xsd:list itemType="ST\_AuthorId"/>
3. </xsd:simpleType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentId

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_CommentReply](#Section_bcc2b4ae75714ecc8e94982f69f793db), [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A simple type that specifies the ID of a comment or a comment reply.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentId">
2. <xsd:restriction base="s:ST\_Guid"/>
3. </xsd:simpleType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentStatus

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2018/8/main

*Referenced by:* [CT\_CommentReply](#Section_bcc2b4ae75714ecc8e94982f69f793db), [CT\_Comment](#Section_161bc2c998fc46b7852bba7ee77e2e54)

A simple type that specifies the status of a comment or comment reply.

| Value | Meaning |
| --- | --- |
| active | Comment is in active status. |
| resolved | Comment is in resolved status. |
| closed | Comment is in closed status. |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentStatus">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="active"/>
4. <xsd:enumeration value="resolved"/>
5. <xsd:enumeration value="closed"/>
6. </xsd:restriction>
7. </xsd:simpleType>

See section [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2020/02/main

### Elements

#### designPr

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2020/02/main

A [CT\_DesignerDrawingProps](#Section_979b46d1d6474750a8473d59e27675d3) element that specifies designer properties of a shape object. See section 2.17.3.1 for how this element integrates with [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="designPr" type="CT\_DesignerDrawingProps"/>

See section [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### designTagLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2020/02/main

*Referenced by:* [CT\_DesignerDrawingProps](#Section_979b46d1d6474750a8473d59e27675d3)

A [CT\_DesignerTagList](#Section_5aef0144b2444072851bfac98708024e) element that specifies metadata regarding changes made to a slide or shape by the [**Designer Service**](#gt_073bc2d5-0b75-4667-b0e0-4feea69c2bfb).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="designTagLst" type="CT\_DesignerTagList"/>

See section [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_DesignerDrawingProps

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2020/02/main

*Referenced by:* [designPr](#Section_4f40bd5c5ad24657b4f0d67a082cb634)

A complex type that specifies designer property extensions to the **CT\_ApplicationNonVisualDrawingProps** complex type ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) [<34>](#Appendix_A_34" \o "Product behavior note 34)

*Child Elements:*

**p202:designTagLst:** A [CT\_DesignerTagList](#Section_5aef0144b2444072851bfac98708024e) element that specifies [**Designer Service**](#gt_073bc2d5-0b75-4667-b0e0-4feea69c2bfb) generated metadata regarding changes made to a shape.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the designer properties will be stored in the extension list.

*Attributes:*

**edtDesignElem:** A xsd:boolean ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.2) attribute that specifies whether a design element is editable.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DesignerDrawingProps">
2. <xsd:sequence>
3. <xsd:element ref="p202:designTagLst" minOccurs="0" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="edtDesignElem" type="xsd:boolean" use="optional" default="false"/>
7. </xsd:complexType>

See section [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DesignerTag

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2020/02/main

*Referenced by:* [CT\_DesignerTagList](#Section_5aef0144b2444072851bfac98708024e)

A complex type that specifies a [**Designer Service**](#gt_073bc2d5-0b75-4667-b0e0-4feea69c2bfb) defined metadata item in the form of a name/value pair. [<35>](#Appendix_A_35" \o "Product behavior note 35)

*Attributes:*

**name:** A xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the name of the metadata item.

**val:** A xsd:string ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies the value of the metadata item.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DesignerTag">
2. <xsd:attribute name="name" type="xsd:string" use="required"/>
3. <xsd:attribute name="val" type="xsd:string" use="required"/>
4. </xsd:complexType>

See section [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_DesignerTagList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2020/02/main

*Referenced by:* [CT\_DesignerDrawingProps](#Section_979b46d1d6474750a8473d59e27675d3), [designTagLst](#Section_d3778e8e03b74f73b772fa515688159a)

A complex type that specifies [**Designer Service**](#gt_073bc2d5-0b75-4667-b0e0-4feea69c2bfb) defined metadata regarding changes made to a slide or shape made by the Designer Service. [<36>](#Appendix_A_36" \o "Product behavior note 36)

*Child Elements:*

**designTag:** A [CT\_DesignerTag](#Section_9978ca232ce946fba58878b960aacead) element that specifies a metadata item consisting of a name/value pair.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_DesignerTagList">
2. <xsd:sequence>
3. <xsd:element name="designTag" type="CT\_DesignerTag" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

### Elements

#### cmMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

*Referenced by:* [CT\_CommentV2Changes](#Section_824ea50e3cc444249549e64c4dcb576e)

A [CT\_CommentV2MonikerList](#Section_6ae762ceb7044b75a574ea562ce0579a) element that specifies the content moniker information associated with a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmMkLst" type="CT\_CommentV2MonikerList"/>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### cmRplyMkLst

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

*Referenced by:* [CT\_CommentReplyV2Changes](#Section_786f0b374aae44aebb81f7e785b8c09e)

A [CT\_CommentReplyV2MonikerList](#Section_3cf43a62498b407eb6ea2c3243203c8a) element that specifies the content moniker information associated with a comment reply.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmRplyMkLst" type="CT\_CommentReplyV2MonikerList"/>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_CommentReplyV2Moniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

A complex type that specifies the content moniker information associated with a comment reply.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.9) attribute that specifies a uniquely generated ID to identify the comment reply.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentReplyV2Moniker">
2. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
3. </xsd:complexType>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentReplyV2MonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

*Referenced by:* [cmRplyMkLst](#Section_b9d7005bb49848d5a4028f0b05c85b9c), [CT\_CommentReplyV2Changes](#Section_786f0b374aae44aebb81f7e785b8c09e)

A complex type that specifies a list of content monikers that together uniquely identify a comment reply in a document. The sequence of child elements MUST be a valid COMMENTREPLYV2MONIKERLIST as shown in the following ABNF grammar (as specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)).

COMMENTREPLYV2MONIKERLIST = COMMENTV2MONIKERLIST (section [2.18.3.4](#Section_6ae762ceb7044b75a574ea562ce0579a)) COMMENTREPLYV2MONIKER

COMMENTREPLYV2MONIKER = **pc2:cmRplyMk** (section [2.18.3.1](#Section_1e14abdf5b784ca19f11123500cc875a))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentReplyV2MonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentV2Moniker

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

A complex type that specifies the content moniker information associated with a comment.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.9) attribute that specifies a uniquely generated ID to identify the comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentV2Moniker">
2. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
3. </xsd:complexType>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentV2MonikerList

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2019/9/main/command

*Referenced by:* [cmMkLst](#Section_274144916b9f41d1935ca27d4134f014), [CT\_CommentV2Changes](#Section_824ea50e3cc444249549e64c4dcb576e)

A complex type that specifies a list of content monikers that together uniquely identify a comment in a document. The sequence of child elements MUST be a valid COMMENTV2MONIKERLIST as specified in the shown in the following ABNF grammar (as specified in [[RFC5234]](https://go.microsoft.com/fwlink/?LinkId=123096)).

COMMENTV2MONIKERLIST = SLIDEMONIKERLIST (section [2.12.3.21](#Section_d50cf27ff9d4482b9c44076b2576ab75)) COMMENTV2MONIKER

COMMENTV2MONIKER = pc2:cmMK (section [2.18.3.3](#Section_2b5a1ab2d5fe45829a9fa6b72bff81cf))

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentV2MonikerList">
2. <xsd:sequence>
3. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

### Elements

#### cmChg

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

A [CT\_CommentV2Changes](#Section_824ea50e3cc444249549e64c4dcb576e) element that specifies the edits made to a comment on a slide.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="cmChg" type="CT\_CommentV2Changes"/>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_CommentReplyV2Changes

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [CT\_CommentV2Changes](#Section_824ea50e3cc444249549e64c4dcb576e)

A complex type that specifies information about edits to a comment reply.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**pc2:cmRplyMkLst:** A [CT\_CommentReplyV2MonikerList](#Section_3cf43a62498b407eb6ea2c3243203c8a) element that specifies a content moniker that identifies the comment reply that was edited.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the comment reply change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_CommentReplyV2ChangeBits](#Section_8ef8f09797104e4db72c7677c47993ec) attribute that specifies the types of edits made to the comment reply.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentReplyV2Changes">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element ref="pc2:cmRplyMkLst" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
6. </xsd:sequence>
7. <xsd:attribute name="chg" type="ST\_CommentReplyV2ChangeBits" use="required"/>
8. </xsd:complexType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_CommentV2Changes

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [cmChg](#Section_8b54819d65774fda9bf1d5bfaeefc29c)

A complex type that specifies information about edits to a comment.

*Child Elements:*

**chgData:** An **ac:CT\_ChangesData** ([[MS-ODRAWXML]](%5bMS-ODRAWXML%5d.pdf#Section_06cff208c6e14db7bb68665135e5f0de) section 2.29.3.1) element that specifies metadata common to content model changes.

**pc2:cmMkLst:** A [CT\_CommentV2MonikerList](#Section_6ae762ceb7044b75a574ea562ce0579a) element that specifies a content moniker that identifies the edited comment.

**cmRplyChg:** A [CT\_CommentReplyV2Changes](#Section_786f0b374aae44aebb81f7e785b8c09e) element that specifies the edits made to a reply on the comment.

**extLst:** A **p:CT\_ExtensionList** ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the comment change descriptor will be stored in the extension list.

*Attributes:*

**chg:** An [ST\_CommentV2ChangeBits](#Section_c0d3f5ec1a044f61b1609880ddf3b6c9) attribute that specifies the types of edits made to the comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentV2Changes">
2. <xsd:sequence>
3. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
4. <xsd:element ref="pc2:cmMkLst" minOccurs="1" maxOccurs="1"/>
5. <xsd:element name="cmRplyChg" type="CT\_CommentReplyV2Changes" minOccurs="0" maxOccurs="unbounded"/>
6. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
7. </xsd:sequence>
8. <xsd:attribute name="chg" type="ST\_CommentV2ChangeBits" use="required"/>
9. </xsd:complexType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

#### ST\_CommentReplyV2ChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [ST\_CommentReplyV2ChangeBits](#Section_8ef8f09797104e4db72c7677c47993ec)

A simple type specifying the edit made to the comment reply.

| Value | Meaning |
| --- | --- |
| add | Comment Reply: Add |
| del | Comment Reply: Delete |
| mod | Comment Reply: Modify |
| modRxn | Comment Reply Reaction: Modify |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentReplyV2ChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="add"/>
4. <xsd:enumeration value="del"/>
5. <xsd:enumeration value="mod"/>
6. <xsd:enumeration value="modRxn"/>
7. </xsd:restriction>
8. </xsd:simpleType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentReplyV2ChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [CT\_CommentReplyV2Changes](#Section_786f0b374aae44aebb81f7e785b8c09e)

A simple type specifying a list of changes to a comment reply

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentReplyV2ChangeBits">
2. <xsd:list itemType="ST\_CommentReplyV2ChangeBit"/>
3. </xsd:simpleType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentV2ChangeBit

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [ST\_CommentV2ChangeBits](#Section_c0d3f5ec1a044f61b1609880ddf3b6c9)

A simple type specifying the edit made to the comment.

| Value | Meaning |
| --- | --- |
| add | Comment: Add |
| del | Comment: Delete |
| mod | Comment: Modify |
| modTsk | Comment Task: Modify |
| modRxn | Comment Reaction: Modify |

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentV2ChangeBit">
2. <xsd:restriction base="xsd:token">
3. <xsd:enumeration value="add"/>
4. <xsd:enumeration value="del"/>
5. <xsd:enumeration value="mod"/>
6. <xsd:enumeration value="modTsk"/>
7. <xsd:enumeration value="modRxn"/>
8. </xsd:restriction>
9. </xsd:simpleType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### ST\_CommentV2ChangeBits

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/06/main/command

*Referenced by:* [CT\_CommentV2Changes](#Section_824ea50e3cc444249549e64c4dcb576e)

A simple type specifying a list of changes to a comment.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this simple type.

1. <xsd:simpleType name="ST\_CommentV2ChangeBits">
2. <xsd:list itemType="ST\_CommentV2ChangeBit"/>
3. </xsd:simpleType>

See section [5.18](#Section_7501f64409804b9fad3cb827d9f74501) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

## http://schemas.microsoft.com/office/powerpoint/2022/08/main

### Elements

#### taskDetails

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

A [CT\_TaskDetails](#Section_c3d142e9a890433aaa0cd976e5c0cf5b) element that specifies additional task details.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="taskDetails" type="CT\_TaskDetails"/>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_CommentAnchor

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskAnchor](#Section_2753253b895e4891bb5822c09aeee2b2)

A complex type that specifies the comment or reply in which the task related action was performed.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.9) attribute that specifies the id of the comment or reply in which the task related action was performed.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_CommentAnchor">
2. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
3. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskAnchor

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies information about the task event’s anchor.

*Child Elements:*

**comment:** A [CT\_CommentAnchor](#Section_1a74c93050b74c0399661b77b42a9a76) element that specifies the comment or reply in which the task related action was performed.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the task anchor will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskAnchor">
2. <xsd:sequence>
3. <xsd:element name="comment" type="CT\_CommentAnchor" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskAssignUnassignUser

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies the identity details of the person who the task event is attributed.

*Attributes:*

**authorId:** An [ST\_AuthorId](#Section_30fd68c67eb5479cacf773632431b459) attribute that specifies the document author id for the person who the task event is attributed.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskAssignUnassignUser">
2. <xsd:attribute name="authorId" type="p188:ST\_AuthorId" use="required"/>
3. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskDetails

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [taskDetails](#Section_e38f73d80d6545f397ece5fd3195cce3)

An element that contains additional task details.

*Child Elements:*

**history:** A [CT\_TaskHistory](#Section_e6f47d38770c454ca5f33ba93addbd24) element that specifies the history of the changes made to the task.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the task details will be stored in the extension list.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskDetails">
2. <xsd:sequence>
3. <xsd:element name="history" type="CT\_TaskHistory" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskHistory

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskDetails](#Section_c3d142e9a890433aaa0cd976e5c0cf5b)

A complex type that specifies a sequence of events that record changes done to the task.

*Child Elements:*

**event:** A [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a) element that specifies a single change made to a task.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskHistory">
2. <xsd:sequence>
3. <xsd:element name="event" type="CT\_TaskHistoryEvent" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskHistoryEvent

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistory](#Section_e6f47d38770c454ca5f33ba93addbd24)

A complex type that specifies a single kind of change done to a task.

*Child Elements:*

**atrbtn:** A [CT\_TaskAssignUnassignUser](#Section_a53798916a5b471d95281a86bcc42100) element that specifies the author id of the user who initiated the change.

**anchr:** A [CT\_TaskAnchor](#Section_2753253b895e4891bb5822c09aeee2b2) element that specifies the object type to which the change is related.

**asgn:** A CT\_TaskAssignUnassignUser element that specifies the event record created when a task is assigned to a particular person.

**add:** A p:CT\_Empty ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies the event record created when a task is created.

**title:** A [CT\_TaskTitleEventInfo](#Section_42dcd77fcd564fb7bd09e4705137c977) element that specifies the event record created when a task title is specified.

**date:** A [CT\_TaskScheduleEventInfo](#Section_32069c75defe45d2b04c793067011d04) element that specifies the event record created when a task schedule is changed.

**pcntCmplt:** A [CT\_TaskProgressEventInfo](#Section_7bdf2eb9eacc4bed867c984a66d5ed0c) element that specifies the event record created when a task progress changes.

**unasgnAll:** A p:CT\_Empty ([ISO/IEC29500-4:2016] section A.3) element that specifies the event record created when a task has been unassigned from all persons.

**undo:** A [CT\_TaskUndo](#Section_8a2dfb1afe064b0ba8e7ed1e2fb88ac3) element that specifies the event record created when a task event record is undone.

**unknown:** A [CT\_TaskUnknownRecord](#Section_1661013575164b078315eb9753f71978) element that specifies the event record created when a task has an unknown change. This is for future extension.

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to the task history will be stored in the extension list.

*Attributes:*

**time:** A xsd:dateTime ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.7) attribute that specifies the time, in UTC, that the task change occurred.

**id:** A s:ST\_Guid ([ISO/IEC-29500-4] section A.7.9) attribute that specifies the unique id for this change event.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskHistoryEvent">
2. <xsd:sequence>
3. <xsd:element name="atrbtn" type="CT\_TaskAssignUnassignUser" minOccurs="1" maxOccurs="1"/>
4. <xsd:element name="anchr" type="CT\_TaskAnchor" minOccurs="0" maxOccurs="1"/>
5. <xsd:choice minOccurs="0" maxOccurs="1">
6. <xsd:element name="asgn" type="CT\_TaskAssignUnassignUser" minOccurs="1" maxOccurs="1"/>
7. <xsd:element name="add" type="p:CT\_Empty" minOccurs="0" maxOccurs="1"/>
8. <xsd:element name="title" type="CT\_TaskTitleEventInfo" minOccurs="1" maxOccurs="1"/>
9. <xsd:element name="date" type="CT\_TaskScheduleEventInfo" minOccurs="1" maxOccurs="1"/>
10. <xsd:element name="pcntCmplt" type="CT\_TaskProgressEventInfo" minOccurs="1" maxOccurs="1"/>
11. <xsd:element name="unasgnAll" type="p:CT\_Empty" minOccurs="0" maxOccurs="1"/>
12. <xsd:element name="undo" type="CT\_TaskUndo" minOccurs="1" maxOccurs="1"/>
13. <xsd:element name="unknown" type="CT\_TaskUnknownRecord" minOccurs="1" maxOccurs="1"/>
14. </xsd:choice>
15. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
16. </xsd:sequence>
17. <xsd:attribute name="time" type="xsd:dateTime" use="required"/>
18. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
19. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskProgressEventInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies information about the task progression.

*Attributes:*

**val:** A s:ST\_PositiveFixedPercentage ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.9) attribute that specifies the whole number value representing the percent complete for the task (0-100).

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskProgressEventInfo">
2. <xsd:attribute name="val" type="s:ST\_PositiveFixedPercentage" use="required"/>
3. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskScheduleEventInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies information about the task schedule.

*Attributes:*

**stDt:** A xsd:dateTime ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.7) attribute that specifies the DateTime, in UTC, when the task assigned was scheduled to start. If this attribute is omitted, there is no start date.

**endDt:** A xsd:dateTime ([XMLSCHEMA2/2] section 3.2.7) attribute that specifies the DateTime, in UTC, when the assigned task is due. If this attribute is omitted, there is no due date.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskScheduleEventInfo">
2. <xsd:attribute name="stDt" type="xsd:dateTime" use="optional"/>
3. <xsd:attribute name="endDt" type="xsd:dateTime" use="optional"/>
4. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskTitleEventInfo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies information about a task title change.

*Attributes:*

**val:** A xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the title for the task.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskTitleEventInfo">
2. <xsd:attribute name="val" type="xsd:string" use="required"/>
3. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskUndo

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies a task change that has been undone.

*Attributes:*

**id:** A s:ST\_Guid ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.7.9) attribute that specifies the unique id of the history record that is being undone via this record.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskUndo">
2. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
3. </xsd:complexType>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_TaskUnknownRecord

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/08/main

*Referenced by:* [CT\_TaskHistoryEvent](#Section_e430f4dc1adc4ede870e7ec5091b167a)

A complex type that specifies an unknown record in task history. This is for future extension.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_TaskUnknownRecord"/>

See section [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2022/03/main

### Elements

#### reactions

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/03/main

A [CT\_Reactions](#Section_55c6d5ff4a9a4d759859e160ca351d6c) element that specifies reactions information associated with the parent element where this extension is rooted.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="reactions" type="CT\_Reactions"/>

See section [5.17](#Section_2f7f5f359fbd4210bfb8bf411b5d2dd5) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_Reaction

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/03/main

*Referenced by:* [CT\_Reactions](#Section_55c6d5ff4a9a4d759859e160ca351d6c)

A complex type that specifies information about a specific reaction type.

*Child Elements:*

**instance:** A [CT\_ReactionInstance](#Section_ecc60fbd0a524f9dbb65c2dca088824d) element that specifies information about a user’s instance of a reaction.

*Attributes:*

**type:** A xsd:string ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.1) attribute that specifies the reaction type. This SHOULD correspond to a Unicode representation of an emoji.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Reaction">
2. <xsd:sequence>
3. <xsd:element name="instance" type="CT\_ReactionInstance" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. <xsd:attribute name="type" type="xsd:string" use="required"/>
6. </xsd:complexType>

See section [5.17](#Section_2f7f5f359fbd4210bfb8bf411b5d2dd5) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_ReactionInstance

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/03/main

*Referenced by:* [CT\_Reaction](#Section_4d8cd94fd5224f7d89e27bf0a7853781)

A complex type that represents a reaction that a particular user has made.

*Child Elements:*

**extLst:** A p:CT\_ExtensionList ([[ISO/IEC-29500-4]](https://go.microsoft.com/fwlink/?LinkId=150884) section A.3) element that specifies the extension list. All future extensions to reaction instances will be stored in the extension list.

*Attributes:*

**time:** A xsd:dateTime ([[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) section 3.2.7) attribute that specifies the time, in UTC, the instance was added.

**authorId:** An [ST\_AuthorId](#Section_30fd68c67eb5479cacf773632431b459) attribute that specifies the author id of the user that reacted.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_ReactionInstance">
2. <xsd:sequence>
3. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
4. </xsd:sequence>
5. <xsd:attribute name="time" type="xsd:dateTime" use="required"/>
6. <xsd:attribute name="authorId" type="p188:ST\_AuthorId" use="required"/>
7. </xsd:complexType>

See section [5.17](#Section_2f7f5f359fbd4210bfb8bf411b5d2dd5) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_Reactions

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2022/03/main

*Referenced by:* [reactions](#Section_5136a9d90e7c4e7a843f4304da0532a4)

A complex type that contains a sequence of reactions to the parent element where this extension is rooted.

*Child Elements:*

**rxn:** A [CT\_Reaction](#Section_4d8cd94fd5224f7d89e27bf0a7853781) element that specifies information about a specific reaction type.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_Reactions">
2. <xsd:sequence>
3. <xsd:element name="rxn" type="CT\_Reaction" minOccurs="0" maxOccurs="unbounded"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.17](#Section_2f7f5f359fbd4210bfb8bf411b5d2dd5) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

## http://schemas.microsoft.com/office/powerpoint/2023/02/main

### Elements

#### phTypeExt

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2023/02/main

A [CT\_PlaceholderTypeExtension](#Section_9781d4dc4f68440f91cc8f70ea0bd6bb) element that specifies the extension of the placeholder element to specify a placeholder type.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this element.

1. <xsd:element name="phTypeExt" type="CT\_PlaceholderTypeExtension"/>

See section [5.20](#Section_36179565a6864c4ca0747ed8b8808b7e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Attributes

None.

### Complex Types

#### CT\_PlaceholderTypeACB

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2023/02/main

*Referenced by:* [CT\_PlaceholderTypeExtension](#Section_9781d4dc4f68440f91cc8f70ea0bd6bb)

A complex type that extends placeholder element to define new types.

*Child Elements:*

**cameo:** A p:CT\_Empty ([[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068) section A.3) element that specifies a cameo placeholder type.

**unknown:** A p:CT\_Empty ([ISO/IEC29500-4:2016] section A.3) element that specifies an unknown placeholder type. This is for future extension.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_PlaceholderTypeACB">
2. <xsd:sequence>
3. <xsd:choice minOccurs="1" maxOccurs="1">
4. <xsd:element name="cameo" type="p:CT\_Empty"/>
5. <xsd:element name="unknown" type="p:CT\_Empty"/>
6. </xsd:choice>
7. </xsd:sequence>
8. </xsd:complexType>

See section [5.20](#Section_36179565a6864c4ca0747ed8b8808b7e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

#### CT\_PlaceholderTypeExtension

*Target namespace:* http://schemas.microsoft.com/office/powerpoint/2023/02/main

*Referenced by:* [phTypeExt](#Section_63c50e68cd534a999017c6748f4d7d47)

A complex type that specifies a sequence of placeholder type ACBs.

*Child Elements:*

**type:** A [CT\_PlaceholderTypeACB](#Section_2dbe05e43fad4bc787762db5e2869da8) element that specifies the extended type of a placeholder.

The following W3C XML Schema ([[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607) section 2.1) fragment specifies the contents of this complex type.

1. <xsd:complexType name="CT\_PlaceholderTypeExtension">
2. <xsd:sequence>
3. <xsd:element name="type" type="CT\_PlaceholderTypeACB" minOccurs="1" maxOccurs="1"/>
4. </xsd:sequence>
5. </xsd:complexType>

See section [5.20](#Section_36179565a6864c4ca0747ed8b8808b7e) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

### Simple Types

None.

# Structure Examples

The following sections provide examples of some of the extensions specified in this document. Some otherwise required markup has been elided and marked with "..." to focus the example on the particular elements being described.

## Slide Transitions

The following shows an example of a **ripple** transition (section [2.3.1.24](#Section_c1c9b4f579c04e2f8b59db2b4cee9f00)):

1. <p:sld xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006">  
     
   ...
2. <mc:AlternateContent>
3. <mc:Choice Requires="p14">
4. <p:transition spd="slow" p14:dur="1500">
5. <p14:ripple dir="ld"/>
6. </p:transition>
7. </mc:Choice>
8. <mc:Fallback>
9. <p:transition spd="slow">
10. <p:fade/>
11. </p:transition>
12. </mc:Fallback>
13. </mc:AlternateContent>  
      
    ...
14. </p:sld>

This example shows a **ripple** slide transition (section 2.3.1.24). The **p14:dur** (section [2.3.2.3](#Section_9032bdb2b273470b8ac4c98a8c944494)) attribute on the **p:transition** element ([[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) section 19.3.1.50) has a value of 1500 and indicates the transition runs for 1.5 seconds. The **dir** attribute on the **p14:ripple** element (section 2.3.1.24) has a value of "ld" and indicates the ripple will be to the left and down.

## Media

The following shows an example of a **media** (section [2.3.1.18](#Section_3d88e290a4a94db29457b04687c06cf5)) extension:

1. <p:pic>
2. <p:nvPicPr>
3. <p:cNvPr id="4" name="video1.wmv" />
4. <p:cNvPicPr>
5. <a:picLocks noChangeAspect="1"/>
6. </p:cNvPicPr>
7. <p:nvPr>
8. <a:videoFile r:link="rId1"/>
9. <p:extLst>
10. <p:ext uri="{DAA4B4D4-6D71-4841-9C94-3DE7FCFB9230}">
11. <p14:media xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" r:embed="rId2">
12. <p14:trim st="18374.0515" end="29596.7072"/>
13. <p14:fade in="1000"/>
14. <p14:bmkLst>
15. <p14:bmk name="Bookmark 1" time="53703.3597"/>
16. </p14:bmkLst>
17. </p14:media>
18. </p:ext>
19. </p:extLst>
20. </p:nvPr>
21. </p:nvPicPr>
22. </p:pic>

This example shows an embedded media that represents a video. The **r:embed** attribute of the **p14:media** element has a value of "rId2" and indicates the relationship identifier to use to find the **Media** (section 2.3.1.18) part. The **st** attribute of the **p14:trim** element has value of 18374.0515 and the **end** attribute has a value of 29596.7072. Together they indicate that the video has been trimmed, such that the first frame played is 18.3740515 seconds from the start of the video and the last frame played is 29.5967072 seconds from the end of the video. The **in** attribute of the **p14:fade** element has a value of 1000 and indicates the video will fade in for 1 second of playback. Finally, the **p14:bmk** element indicates a media bookmark. The **time** attribute has a value of 53703.3597 and indicates the bookmark location is 53.7033597 seconds from the start of the video. The bookmark can be used to easily jump to a particular point in the video or to trigger a separate animation.

## Sections

The following shows an example of a **sectionLst** (section [2.3.1.25](#Section_db88eca9e5d04fc6b1c95387557998bd)) extension:

1. <p:presentation xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" saveSubsetFonts="1">  
     
   ...
2. <p:sldIdLst>
3. <p:sldId id="256" r:id="rId2"/>
4. <p:sldId id="257" r:id="rId3"/>
5. <p:sldId id="259" r:id="rId4"/>
6. <p:sldId id="258" r:id="rId5"/>
7. </p:sldIdLst>
8. ...
9. <p:extLst>
10. <p:ext uri="{521415D9-36F7-43E2-AB2F-B90AF26B5E84}">
11. <p14:sectionLst>
12. <p14:section name="Introduction" id="{01F07B81-39E6-4BBB-9B89-66EA253FBD29}">
13. <p14:sldIdLst>
14. <p14:sldId id="256"/>
15. </p14:sldIdLst>
16. </p14:section>
17. <p14:section name="Content" id="{1FEF2C88-0CF2-4176-BA81-0DE6FD9D1274}">
18. <p14:sldIdLst>
19. <p14:sldId id="257"/>
20. <p14:sldId id="259"/>
21. </p14:sldIdLst>
22. </p14:section>
23. <p14:section name="Conclusion" id="{CA1E145A-94F4-4C2D-9BC0-76C4A01D48ED}">
24. <p14:sldIdLst>
25. <p14:sldId id="258"/>
26. </p14:sldIdLst>
27. </p14:section>
28. </p14:sectionLst>
29. </p:ext>
30. </p:extLst>
31. </p:presentation>

This example shows a presentation with three sections. The first **p14:section** element represents the first section. Its **name** attribute has a value of "Introduction" and indicates the name of the first section; its child element **p14:sldIdLst** has a child **p14:sldId** with the value of 256 that indicates that the first section encompasses the first [**presentation slide**](#gt_18428521-9032-41a4-85c4-6fb65d882192). The second **p14:section** element represents the second section. Its **name** attribute has a value of "Content" and indicates the name of the second section; it has a child element **p14:sldIdLst** that has two **p14:sldId** child elements with the values of 257 and 259 and that indicates that the second section encompasses the second and third presentation slides. The third **p14:section** element represents the third section. Its **name** attribute has a value of "Conclusion" and indicates the name of the third section; its child element **p14**:**sldIdLst** has only one child element **p14:sldId** with the value of 258 and that indicates that the third section encompasses the fourth presentation slide.

## Slide Show

The following shows an example of the **laserTraceLst** (section [2.3.1.17](#Section_a0466c2453384edc920a3d095aa8738a)) and **showEvtLst** (section [2.3.1.26](#Section_04f39c957a484f98bb211f58fcd65e9d)) extensions:

1. <p:sld xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main">
2. <p:cSld>
3. <p:spTree>
4. ...
5. <p:pic>
6. <p:nvPicPr>
7. <p:cNvPr id="4" name="video1.wmv">
8. <a:hlinkClick r:id="" action="ppaction://media"/>
9. </p:cNvPr>
10. <p:cNvPicPr>
11. <a:picLocks noChangeAspect="1"/>
12. </p:cNvPicPr>
13. <p:nvPr>
14. <a:videoFile r:link="rId2"/>
15. <p:extLst>
16. <p:ext uri="{DAA4B4D4-6D71-4841-9C94-3DE7FCFB9230}">
17. <p14:media r:embed="rId1">
18. <p14:bmkLst/>
19. </p14:media>
20. </p:ext>
21. </p:extLst>
22. </p:nvPr>
23. </p:nvPicPr>
24. ...
25. </p:pic>
26. <p:sp>
27. <p:nvSpPr>
28. <p:cNvPr id="6" name="Rectangle 5"/>
29. <p:cNvSpPr/>
30. <p:nvPr/>
31. </p:nvSpPr>
32. ...
33. </p:sp>
34. </p:spTree>
35. </p:cSld>
36. ...
37. <p:extLst>
38. <p:ext uri="{3A86A75C-4F4B-4683-9AE1-C65F6400EC91}">
39. <p14:laserTraceLst>
40. <p14:tracePtLst>
41. <p14:tracePt t="48796" x="6062662" y="3259137"/>
42. <p14:tracePt t="49796" x="6438900" y="3179762"/>
43. <p14:tracePt t="50296" x="0" y="0"/>
44. </p14:tracePtLst>
45. <p14:tracePtLst>
46. <p14:tracePt t="52000" x="1196975" y="2982912"/>
47. <p14:tracePt t="55000" x="0" y="0"/>
48. </p14:tracePtLst>
49. </p14:laserTraceLst>
50. </p:ext>
51. <p:ext uri="{E180D4A7-C9FB-4DFB-919C-405C955672EB}">
52. <p14:showEvtLst>
53. <p14:triggerEvt type="onClick" time="6950" objId="6"/>
54. <p14:playEvt time="12722" objId="4"/>
55. <p14:pauseEvt time="38839" objId="4"/>
56. <p14:seekEvt time="38839" objId="4" seek="10379"/>
57. <p14:resumeEvt time="38859" objId="4"/>
58. <p14:stopEvt time="49628" objId="4"/>
59. </p14:showEvtLst>
60. </p:ext>
61. </p:extLst>
62. </p:sld>

First, the example shows a **p14:laserTraceLst** (section 2.3.1.17) element with two laser traces. The first **p14:tracePtLst** element indicates the first laser trace which includes three trace points. The first **p14:tracePt** element's **t** attribute has a value of 48796; its **x** attribute has a value of 6062662; and its **y** attribute has a value of 3259137. Together they indicate that the laser pointer first appears after 48.796 seconds at the location (6062662, 3259137). The second **p14:tracePt** element's **t** attribute has a value of 49796; its **x** attribute has a value of "6438900"; and its **y** attribute has a value of 3179762. Together they indicate that the laser pointer moves to the location (6438900, 3179762) after one additional second. The third **p14:tracePt** element's **t** attribute has a value of 50296; its **x** attribute has a value of zero; and its **y** value has a value of zero. Together, they indicate that the laser pointer moves to location (0, 0) after an additional 500 milliseconds. At this point, the laser trace ends and the laser pointer disappears. The second **p14:tracePtLst** element indicates the second laser trace, which includes two trace points. The first **p14:tracePt** element's **t** attribute has a value of 52000; its **x** attribute has a value of 1196975; and its **y** attribute has a value of 2982912. Together they indicate that the laser pointer reappears 1.704 seconds later at position (1196975, 2982912). The second **p14:tracePt** element's **t** attribute has a value of 55000; its **x** attribute has a value of zero; and its **y** attribute has a value of zero. Together they indicate that the laser pointer moves to location (0, 0) after an additional 3 seconds. At this point, the laser trace ends and the laser pointer again disappears.

Next, the example shows a **p14:showEvtLst** (section 2.3.1.26) with six events. The **p14:triggerEvt** element indicates the first event. Its **type** attribute has a value of "onClick"; its **time** attribute has a value of 6950; and its **objId** attribute has a value of 6. Together they indicate that the shape with the name "Rectangle 5" was clicked at 6.95 seconds. The **p14:playEvt** element indicates the second event. Its **time** attribute has a value of 12722 and its **objId** attribute has a value of 4. Together they indicate that the video with name "video1.wmv" began playing at 12.722 seconds. The **p14:pauseEvt** element indicates the third event. Its **time** attribute has a value of 38839 and its **objId** attribute has a value of 4. Together they indicate that the video with name "video1.wmv" was paused at 38.839 seconds. The **p14:seekEvt** element indicates the fourth event. Its **time** attribute has a value of 38839; its **objId** attribute has a value of 4; and its **seek** attribute has a value of 10379. Together they indicate that the video with name "video1.wmv" was seeked to 10.379 seconds from the start of the video at 38.839 seconds. The **p14:resumeEvt** element indicates the fifth event. Its **time** attribute has a value of 38859 and its **objId** attribute has a value of 4. Together they indicate that the video with name "video1.wmv" resumed playing at 38.859 seconds. The **p14:stopEvt** element indicates the sixth event. Its **time** attribute has a value of 49628 and its **objId** attribute has a value of 4. Together they indicate that the video with name "video1.wmv" stopped playing at 49.628 seconds.

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

None.

# Appendix A: Full XML Schemas

For ease of implementation, this section provides the full W3C XML schemas for the new elements, attributes, complex types, and simple types specified in this document. Any schema references to namespaces included in [[ISO/IEC29500-1:2016]](https://go.microsoft.com/fwlink/?linkid=861065) refer specifically to the transitional schemas, as specified in [[ISO/IEC29500-4:2016]](https://go.microsoft.com/fwlink/?linkid=861068).

| Schema name | Prefix | Section |
| --- | --- | --- |
| http://schemas.microsoft.com/office/powerpoint/2010/main Schema | p14 | [5.1](#Section_cc91572885a446a0a07ceb5416a5762e) |
| http://schemas.microsoft.com/office/powerpoint/2012/main Schema | None. | [5.2](#Section_27d7324c0a294475a980de020defb315) |
| http://schemas.microsoft.com/office/powerpoint/2015/09/main Schema | p159 | [5.4](#Section_a54fd7b704d64d16bbddb20b2b99578c) |
| http://schemas.microsoft.com/office/powerpoint/2015/10/main Schema | p1510 | [5.5](#Section_e5047fb05d6d421fbfe9ce8cd549843f) |
| http://schemas.microsoft.com/office/powerpoint/2015/main Schema | p16 | [5.6](#Section_166486237c2a4c18a7cb093daa05500e) |
| http://schemas.microsoft.com/office/powerpoint/2016/6/main Schema | p166 | [5.7](#Section_84585d01dfd5403e923527853aff4d46) |
| http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom Schema | psez | [5.8](#Section_55c6a539eea9478fa6ff6ad2f1dde7e7) |
| http://schemas.microsoft.com/office/powerpoint/2016/slidezoom Schema | pslz | [5.9](#Section_87141ff266094acca63f1b230b4a1b38) |
| http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom Schema | psuz | [5.10](#Section_3aa207bf1c1a4bb9877616d130f1557f) |
| http://schemas.microsoft.com/office/powerpoint/2019/9/main/command Schema | pc2 | [5.15](#Section_03d8f774bc534111820cafdd3ab2753a) |
| http://schemas.microsoft.com/office/powerpoint/2022/06/main/command Schema | pc226 | [5.18](#Section_7501f64409804b9fad3cb827d9f74501) |
| http://schemas.microsoft.com/office/powerpoint/2013/main/command Schema | pc | [5.3](#Section_cf9393f7a14445e6b7d55dec18fcfce0) |
| http://schemas.microsoft.com/office/powerpoint/2017/3/main Schema | p173 | [5.12](#Section_f696ec1adb5c4234b5af123d2c8e6a2b) |
| http://schemas.microsoft.com/office/powerpoint/2017/10/main Schema | p1710 | [5.11](#Section_28180d300176416fbaf72212d5dd0c48) |
| http://schemas.microsoft.com/office/powerpoint/2018/4/main Schema | p184 | [5.13](#Section_e34b98f194c043f7af1083a0c8a0a03b) |
| http://schemas.microsoft.com/office/powerpoint/2022/03/main Schema | None. | [5.17](#Section_2f7f5f359fbd4210bfb8bf411b5d2dd5) |
| http://schemas.microsoft.com/office/powerpoint/2022/08/main Schema | None. | [5.19](#Section_553f8c1bd46b4f15ab68ee241748605a) |
| http://schemas.microsoft.com/office/powerpoint/2018/8/main Schema | p188 | [5.14](#Section_af0dc8d7ee58435b80fb72f2b351b689) |
| http://schemas.microsoft.com/office/powerpoint/2020/02/main Schema | p202 | [5.16](#Section_e68b6b1996544d2b929a0860e37ce25d) |
| http://schemas.microsoft.com/office/powerpoint/2023/02/main Schema | None. | [5.20](#Section_36179565a6864c4ca0747ed8b8808b7e) |

## http://schemas.microsoft.com/office/powerpoint/2010/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:p173="http://schemas.microsoft.com/office/powerpoint/2017/3/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:a14="http://schemas.microsoft.com/office/drawing/2010/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
2. <xsd:import namespace="http://schemas.microsoft.com/office/drawing/2010/main" schemaLocation="dml-mainExt.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/relationships" schemaLocation="shared-relationshipReference.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
6. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
7. <xsd:simpleType name="ST\_UniversalTimeOffset">
8. <xsd:restriction base="xsd:string"/>
9. </xsd:simpleType>
10. <xsd:simpleType name="ST\_TransitionPattern">
11. <xsd:restriction base="xsd:token">
12. <xsd:enumeration value="diamond"/>
13. <xsd:enumeration value="hexagon"/>
14. </xsd:restriction>
15. </xsd:simpleType>
16. <xsd:simpleType name="ST\_TransitionCenterDirectionType">
17. <xsd:restriction base="xsd:token">
18. <xsd:enumeration value="center"/>
19. </xsd:restriction>
20. </xsd:simpleType>
21. <xsd:simpleType name="ST\_TransitionShredPattern">
22. <xsd:restriction base="xsd:token">
23. <xsd:enumeration value="strip"/>
24. <xsd:enumeration value="rectangle"/>
25. </xsd:restriction>
26. </xsd:simpleType>
27. <xsd:simpleType name="ST\_TransitionCornerAndCenterDirectionType">
28. <xsd:union memberTypes="p:ST\_TransitionCornerDirectionType ST\_TransitionCenterDirectionType"/>
29. </xsd:simpleType>
30. <xsd:simpleType name="ST\_TransitionLeftRightDirectionType">
31. <xsd:restriction base="xsd:token">
32. <xsd:enumeration value="l"/>
33. <xsd:enumeration value="r"/>
34. </xsd:restriction>
35. </xsd:simpleType>
36. <xsd:complexType name="CT\_LeftRightDirectionTransition">
37. <xsd:attribute name="dir" type="ST\_TransitionLeftRightDirectionType"/>
38. </xsd:complexType>
39. <xsd:element name="vortex" type="p:CT\_SideDirectionTransition"/>
40. <xsd:element name="switch" type="CT\_LeftRightDirectionTransition"/>
41. <xsd:element name="flip" type="CT\_LeftRightDirectionTransition"/>
42. <xsd:complexType name="CT\_RippleTransition">
43. <xsd:attribute name="dir" type="ST\_TransitionCornerAndCenterDirectionType" use="optional" default="center"/>
44. </xsd:complexType>
45. <xsd:element name="ripple" type="CT\_RippleTransition"/>
46. <xsd:element name="honeycomb" type="p:CT\_Empty"/>
47. <xsd:complexType name="CT\_PrismTransition">
48. <xsd:attribute name="dir" type="p:ST\_TransitionSideDirectionType" use="optional" default="l"/>
49. <xsd:attribute name="isContent" type="xsd:boolean" use="optional" default="false"/>
50. <xsd:attribute name="isInverted" type="xsd:boolean" use="optional" default="false"/>
51. </xsd:complexType>
52. <xsd:element name="prism" type="CT\_PrismTransition"/>
53. <xsd:element name="doors" type="p:CT\_OrientationTransition"/>
54. <xsd:element name="window" type="p:CT\_OrientationTransition"/>
55. <xsd:element name="ferris" type="CT\_LeftRightDirectionTransition"/>
56. <xsd:element name="gallery" type="CT\_LeftRightDirectionTransition"/>
57. <xsd:element name="conveyor" type="CT\_LeftRightDirectionTransition"/>
58. <xsd:element name="pan" type="p:CT\_SideDirectionTransition"/>
59. <xsd:complexType name="CT\_GlitterTransition">
60. <xsd:attribute name="dir" type="p:ST\_TransitionSideDirectionType" use="optional" default="l"/>
61. <xsd:attribute name="pattern" type="ST\_TransitionPattern" use="optional" default="diamond"/>
62. </xsd:complexType>
63. <xsd:element name="glitter" type="CT\_GlitterTransition"/>
64. <xsd:complexType name="CT\_FlyThroughTransition">
65. <xsd:attribute name="dir" type="p:ST\_TransitionInOutDirectionType" use="optional" default="in"/>
66. <xsd:attribute name="hasBounce" type="xsd:boolean" use="optional" default="false"/>
67. </xsd:complexType>
68. <xsd:element name="warp" type="p:CT\_InOutTransition"/>
69. <xsd:element name="flythrough" type="CT\_FlyThroughTransition"/>
70. <xsd:element name="flash" type="p:CT\_Empty"/>
71. <xsd:complexType name="CT\_ShredTransition">
72. <xsd:attribute name="pattern" type="ST\_TransitionShredPattern" use="optional" default="strip"/>
73. <xsd:attribute name="dir" type="p:ST\_TransitionInOutDirectionType" use="optional" default="in"/>
74. </xsd:complexType>
75. <xsd:element name="shred" type="CT\_ShredTransition"/>
76. <xsd:complexType name="CT\_RevealTransition">
77. <xsd:attribute name="thruBlk" type="xsd:boolean" use="optional" default="false"/>
78. <xsd:attribute name="dir" type="ST\_TransitionLeftRightDirectionType" use="optional" default="l"/>
79. </xsd:complexType>
80. <xsd:element name="reveal" type="CT\_RevealTransition"/>
81. <xsd:complexType name="CT\_MediaBookmarkTarget">
82. <xsd:attribute name="spid" type="a:ST\_DrawingElementId" use="required"/>
83. <xsd:attribute name="bmkName" type="xsd:string" use="required"/>
84. </xsd:complexType>
85. <xsd:element name="wheelReverse" type="p:CT\_WheelTransition"/>
86. <xsd:attribute name="dur" type="p14:ST\_UniversalTimeOffset"/>
87. <xsd:element name="bmkTgt" type="CT\_MediaBookmarkTarget"/>
88. <xsd:attribute name="presetBounceEnd" type="s:ST\_PositiveFixedPercentage"/>
89. <xsd:attribute name="bounceEnd" type="s:ST\_PositiveFixedPercentage"/>
90. <xsd:complexType name="CT\_ContentPartNonVisual">
91. <xsd:sequence>
92. <xsd:element name="cNvPr" type="a:CT\_NonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
93. <xsd:element name="cNvContentPartPr" type="a14:CT\_NonVisualInkContentPartProperties" minOccurs="0" maxOccurs="1"/>
94. <xsd:element name="nvPr" type="p:CT\_ApplicationNonVisualDrawingProps" minOccurs="1" maxOccurs="1"/>
95. </xsd:sequence>
96. </xsd:complexType>
97. <xsd:element name="nvContentPartPr" type="CT\_ContentPartNonVisual"/>
98. <xsd:attribute name="bwMode" type="a:ST\_BlackWhiteMode"/>
99. <xsd:element name="xfrm" type="a:CT\_Transform2D"/>
100. <xsd:element name="extLst" type="p:CT\_ExtensionListModify"/>
101. <xsd:complexType name="CT\_MediaTrim">
102. <xsd:attribute name="st" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
103. <xsd:attribute name="end" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
104. </xsd:complexType>
105. <xsd:complexType name="CT\_MediaFade">
106. <xsd:attribute name="in" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
107. <xsd:attribute name="out" type="p14:ST\_UniversalTimeOffset" use="optional" default="0"/>
108. </xsd:complexType>
109. <xsd:complexType name="CT\_MediaBookmark">
110. <xsd:attribute name="name" type="xsd:string"/>
111. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset"/>
112. </xsd:complexType>
113. <xsd:complexType name="CT\_MediaBookmarkList">
114. <xsd:sequence>
115. <xsd:element name="bmk" type="CT\_MediaBookmark" minOccurs="0" maxOccurs="unbounded"/>
116. </xsd:sequence>
117. </xsd:complexType>
118. <xsd:complexType name="CT\_Media">
119. <xsd:sequence>
120. <xsd:element name="trim" type="CT\_MediaTrim" minOccurs="0" maxOccurs="1"/>
121. <xsd:element name="fade" type="CT\_MediaFade" minOccurs="0" maxOccurs="1"/>
122. <xsd:element name="bmkLst" type="CT\_MediaBookmarkList" minOccurs="0" maxOccurs="1"/>
123. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
124. </xsd:sequence>
125. <xsd:attributeGroup ref="a:AG\_Blob"/>
126. </xsd:complexType>
127. <xsd:element name="media" type="CT\_Media"/>
128. <xsd:complexType name="CT\_SectionSlideIdListEntry">
129. <xsd:attribute name="id" type="p:ST\_SlideId" use="required"/>
130. </xsd:complexType>
131. <xsd:complexType name="CT\_SectionSlideIdList">
132. <xsd:sequence>
133. <xsd:element name="sldId" type="CT\_SectionSlideIdListEntry" minOccurs="0" maxOccurs="unbounded"/>
134. </xsd:sequence>
135. </xsd:complexType>
136. <xsd:complexType name="CT\_Section">
137. <xsd:sequence>
138. <xsd:element name="sldIdLst" type="CT\_SectionSlideIdList" minOccurs="1" maxOccurs="1"/>
139. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
140. </xsd:sequence>
141. <xsd:attribute name="name" type="xsd:string"/>
142. <xsd:attribute name="id" type="s:ST\_Guid"/>
143. </xsd:complexType>
144. <xsd:complexType name="CT\_SectionList">
145. <xsd:sequence>
146. <xsd:element name="section" type="CT\_Section" minOccurs="1" maxOccurs="unbounded"/>
147. </xsd:sequence>
148. </xsd:complexType>
149. <xsd:element name="sectionLst" type="CT\_SectionList"/>
150. <xsd:complexType name="CT\_BrowseMode">
151. <xsd:attribute name="showStatus" type="xsd:boolean" use="optional" default="true"/>
152. </xsd:complexType>
153. <xsd:element name="browseMode" type="CT\_BrowseMode"/>
154. <xsd:element name="laserClr" type="a:CT\_Color"/>
155. <xsd:complexType name="CT\_DefaultImageDpi">
156. <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
157. </xsd:complexType>
158. <xsd:element name="defaultImageDpi" type="CT\_DefaultImageDpi"/>
159. <xsd:complexType name="CT\_DiscardImageEditData">
160. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
161. </xsd:complexType>
162. <xsd:element name="discardImageEditData" type="CT\_DiscardImageEditData"/>
163. <xsd:complexType name="CT\_ShowMediaControls">
164. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
165. </xsd:complexType>
166. <xsd:element name="showMediaCtrls" type="CT\_ShowMediaControls"/>
167. <xsd:complexType name="CT\_LaserTracePoint">
168. <xsd:attribute name="t" type="p14:ST\_UniversalTimeOffset" use="required"/>
169. <xsd:attribute name="x" type="a:ST\_Coordinate" use="required"/>
170. <xsd:attribute name="y" type="a:ST\_Coordinate" use="required"/>
171. </xsd:complexType>
172. <xsd:complexType name="CT\_LaserTrace">
173. <xsd:sequence>
174. <xsd:element name="tracePt" type="CT\_LaserTracePoint" minOccurs="0" maxOccurs="unbounded"/>
175. </xsd:sequence>
176. </xsd:complexType>
177. <xsd:complexType name="CT\_LaserTraceList">
178. <xsd:sequence>
179. <xsd:element name="tracePtLst" type="CT\_LaserTrace" minOccurs="0" maxOccurs="unbounded"/>
180. </xsd:sequence>
181. </xsd:complexType>
182. <xsd:element name="laserTraceLst" type="CT\_LaserTraceList"/>
183. <xsd:complexType name="CT\_RandomId">
184. <xsd:attribute name="val" type="xsd:unsignedInt" use="required"/>
185. </xsd:complexType>
186. <xsd:element name="creationId" type="CT\_RandomId"/>
187. <xsd:element name="modId" type="CT\_RandomId"/>
188. <xsd:complexType name="CT\_TriggerEventRecord">
189. <xsd:attribute name="type" type="p:ST\_TLTriggerEvent" use="required"/>
190. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
191. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
192. </xsd:complexType>
193. <xsd:complexType name="CT\_NullEventRecord">
194. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
195. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
196. </xsd:complexType>
197. <xsd:complexType name="CT\_MediaPlaybackEventRecord">
198. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
199. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
200. </xsd:complexType>
201. <xsd:complexType name="CT\_MediaSeekEventRecord">
202. <xsd:attribute name="time" type="p14:ST\_UniversalTimeOffset" use="required"/>
203. <xsd:attribute name="objId" type="a:ST\_DrawingElementId" use="required"/>
204. <xsd:attribute name="seek" type="p14:ST\_UniversalTimeOffset" use="required"/>
205. </xsd:complexType>
206. <xsd:complexType name="CT\_ShowEventRecordList">
207. <xsd:sequence>
208. <xsd:choice minOccurs="0" maxOccurs="unbounded">
209. <xsd:element name="triggerEvt" type="CT\_TriggerEventRecord"/>
210. <xsd:element name="playEvt" type="CT\_MediaPlaybackEventRecord"/>
211. <xsd:element name="stopEvt" type="CT\_MediaPlaybackEventRecord"/>
212. <xsd:element name="pauseEvt" type="CT\_MediaPlaybackEventRecord"/>
213. <xsd:element name="resumeEvt" type="CT\_MediaPlaybackEventRecord"/>
214. <xsd:element name="seekEvt" type="CT\_MediaSeekEventRecord"/>
215. <xsd:element name="nullEvt" type="CT\_NullEventRecord"/>
216. </xsd:choice>
217. </xsd:sequence>
218. </xsd:complexType>
219. <xsd:element name="showEvtLst" type="CT\_ShowEventRecordList"/>
220. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2012/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2012/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2012/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
5. <xsd:complexType name="CT\_PresetTransition" xmlns:p15="http://schemas.microsoft.com/office/powerpoint/2012/main">
6. <xsd:attribute name="prst" type="xsd:string"/>
7. <xsd:attribute name="invX" type="xsd:boolean" use="optional" default="false"/>
8. <xsd:attribute name="invY" type="xsd:boolean" use="optional" default="false"/>
9. </xsd:complexType>
10. <xsd:element name="prstTrans" type="CT\_PresetTransition" xmlns:p15="http://schemas.microsoft.com/office/powerpoint/2012/main"/>
11. <xsd:complexType name="CT\_PresenceInfo">
12. <xsd:attribute name="userId" type="xsd:string" use="required"/>
13. <xsd:attribute name="providerId" type="xsd:string" use="required"/>
14. </xsd:complexType>
15. <xsd:complexType name="CT\_ParentCommentIdentifier">
16. <xsd:attribute name="authorId" type="xsd:unsignedInt"/>
17. <xsd:attribute name="idx" type="xsd:unsignedInt"/>
18. </xsd:complexType>
19. <xsd:complexType name="CT\_CommentThreading">
20. <xsd:sequence>
21. <xsd:element name="parentCm" type="CT\_ParentCommentIdentifier" minOccurs="0" maxOccurs="1"/>
22. </xsd:sequence>
23. <xsd:attribute name="timeZoneBias" type="xsd:int"/>
24. </xsd:complexType>
25. <xsd:element name="presenceInfo" type="CT\_PresenceInfo"/>
26. <xsd:element name="threadingInfo" type="CT\_CommentThreading"/>
27. <xsd:complexType name="CT\_ExtendedGuide">
28. <xsd:sequence>
29. <xsd:element name="clr" type="a:CT\_Color" minOccurs="1" maxOccurs="1"/>
30. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
31. </xsd:sequence>
32. <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
33. <xsd:attribute name="name" type="xsd:string" use="optional" default=""/>
34. <xsd:attribute name="orient" type="p:ST\_Direction" use="optional" default="vert"/>
35. <xsd:attribute name="pos" type="a:ST\_Coordinate32" use="optional" default="0"/>
36. <xsd:attribute name="userDrawn" type="xsd:boolean" use="optional" default="false"/>
37. </xsd:complexType>
38. <xsd:complexType name="CT\_ExtendedGuideList">
39. <xsd:sequence>
40. <xsd:element name="guide" type="CT\_ExtendedGuide" minOccurs="0" maxOccurs="unbounded"/>
41. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
42. </xsd:sequence>
43. </xsd:complexType>
44. <xsd:element name="sldGuideLst" type="CT\_ExtendedGuideList"/>
45. <xsd:element name="notesGuideLst" type="CT\_ExtendedGuideList"/>
46. <xsd:complexType name="CT\_ChartTrackingRefBased">
47. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
48. </xsd:complexType>
49. <xsd:element name="chartTrackingRefBased" type="CT\_ChartTrackingRefBased"/>
50. <xsd:complexType name="CT\_IsNarration" xmlns:p15="http://schemas.microsoft.com/office/powerpoint/2012/main">
51. <xsd:attribute name="val" type="xsd:boolean" use="optional" default="false"/>
52. </xsd:complexType>
53. <xsd:element name="isNarration" type="CT\_IsNarration" xmlns:p15="http://schemas.microsoft.com/office/powerpoint/2012/main"/>
54. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2013/main/command Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2013/main/command" xmlns="http://schemas.microsoft.com/office/powerpoint/2013/main/command" xmlns:pc="http://schemas.microsoft.com/office/powerpoint/2013/main/command" xmlns:pc226="http://schemas.microsoft.com/office/powerpoint/2022/06/main/command" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:p15="http://schemas.microsoft.com/office/powerpoint/2012/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:ac="http://schemas.microsoft.com/office/drawing/2013/main/command" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/drawing/2013/main/command" schemaLocation="dml-cmd.xsd"/>
3. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2022/06/main/command" schemaLocation="ms-pptxCmd226.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
6. <xsd:simpleType name="ST\_CreationId">
7. <xsd:restriction base="xsd:unsignedInt"/>
8. </xsd:simpleType>
9. <xsd:complexType name="CT\_DocumentMoniker"/>
10. <xsd:complexType name="CT\_SlideMoniker">
11. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
12. <xsd:attribute name="sldId" type="p:ST\_SlideId" use="required"/>
13. </xsd:complexType>
14. <xsd:complexType name="CT\_MainMasterMoniker">
15. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
16. <xsd:attribute name="sldId" type="p:ST\_SlideMasterId" use="required"/>
17. </xsd:complexType>
18. <xsd:complexType name="CT\_SlideLayoutMoniker">
19. <xsd:attribute name="cId" type="ST\_CreationId" use="optional"/>
20. <xsd:attribute name="sldId" type="p:ST\_SlideLayoutId" use="required"/>
21. </xsd:complexType>
22. <xsd:complexType name="CT\_CommentMoniker">
23. <xsd:attribute name="authorId" type="xsd:unsignedInt" use="required"/>
24. <xsd:attribute name="idx" type="p:ST\_Index" use="required"/>
25. </xsd:complexType>
26. <xsd:complexType name="CT\_CommentAuthorMoniker">
27. <xsd:attribute name="id" type="xsd:unsignedInt" use="required"/>
28. </xsd:complexType>
29. <xsd:complexType name="CT\_DocumentMonikerList">
30. <xsd:sequence>
31. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
32. </xsd:sequence>
33. </xsd:complexType>
34. <xsd:complexType name="CT\_SlideBaseMonikerList">
35. <xsd:sequence>
36. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
37. </xsd:sequence>
38. </xsd:complexType>
39. <xsd:complexType name="CT\_MainMasterMonikerList">
40. <xsd:sequence>
41. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
42. </xsd:sequence>
43. </xsd:complexType>
44. <xsd:complexType name="CT\_SlideLayoutMonikerList">
45. <xsd:sequence>
46. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
47. </xsd:sequence>
48. </xsd:complexType>
49. <xsd:complexType name="CT\_SlideMonikerList">
50. <xsd:sequence>
51. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
52. </xsd:sequence>
53. </xsd:complexType>
54. <xsd:complexType name="CT\_CommentMonikerList">
55. <xsd:sequence>
56. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
57. </xsd:sequence>
58. </xsd:complexType>
59. <xsd:complexType name="CT\_CommentAuthorMonikerList">
60. <xsd:sequence>
61. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
62. </xsd:sequence>
63. </xsd:complexType>
64. <xsd:element name="cmAuthorMkLst" type="CT\_CommentAuthorMonikerList"/>
65. <xsd:element name="cmMkLst" type="CT\_CommentMonikerList"/>
66. <xsd:element name="docMkLst" type="CT\_DocumentMonikerList"/>
67. <xsd:element name="sldBaseMkLst" type="CT\_SlideBaseMonikerList"/>
68. <xsd:element name="sldLayoutMkLst" type="CT\_SlideLayoutMonikerList"/>
69. <xsd:element name="sldMasterMkLst" type="CT\_MainMasterMonikerList"/>
70. <xsd:element name="sldMkLst" type="CT\_SlideMonikerList"/>
71. <xsd:simpleType name="ST\_CommentChangeBit">
72. <xsd:restriction base="xsd:token">
73. <xsd:enumeration value="add"/>
74. <xsd:enumeration value="del"/>
75. <xsd:enumeration value="mod"/>
76. <xsd:enumeration value="replId"/>
77. </xsd:restriction>
78. </xsd:simpleType>
79. <xsd:simpleType name="ST\_CommentChangeBits">
80. <xsd:list itemType="ST\_CommentChangeBit"/>
81. </xsd:simpleType>
82. <xsd:complexType name="CT\_CommentChanges">
83. <xsd:sequence>
84. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
85. <xsd:element name="cmMkLst" type="CT\_CommentMonikerList" minOccurs="1" maxOccurs="1"/>
86. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
87. </xsd:sequence>
88. <xsd:attribute name="chg" type="ST\_CommentChangeBits" use="required"/>
89. </xsd:complexType>
90. <xsd:simpleType name="ST\_CommentAuthorChangeBit">
91. <xsd:restriction base="xsd:token">
92. <xsd:enumeration value="add"/>
93. <xsd:enumeration value="del"/>
94. <xsd:enumeration value="mod"/>
95. <xsd:enumeration value="replId"/>
96. </xsd:restriction>
97. </xsd:simpleType>
98. <xsd:simpleType name="ST\_CommentAuthorChangeBits">
99. <xsd:list itemType="ST\_CommentAuthorChangeBit"/>
100. </xsd:simpleType>
101. <xsd:complexType name="CT\_CommentAuthorChanges">
102. <xsd:sequence>
103. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
104. <xsd:element name="cmAuthorMkLst" type="CT\_CommentAuthorMonikerList" minOccurs="1" maxOccurs="1"/>
105. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
106. </xsd:sequence>
107. <xsd:attribute name="chg" type="ST\_CommentAuthorChangeBits" use="required"/>
108. </xsd:complexType>
109. <xsd:simpleType name="ST\_SlideChangeBit">
110. <xsd:restriction base="xsd:token">
111. <xsd:enumeration value="addSp"/>
112. <xsd:enumeration value="delSp"/>
113. <xsd:enumeration value="modSp"/>
114. <xsd:enumeration value="spOrd"/>
115. <xsd:enumeration value="new"/>
116. <xsd:enumeration value="add"/>
117. <xsd:enumeration value="del"/>
118. <xsd:enumeration value="mod"/>
119. <xsd:enumeration value="ord"/>
120. <xsd:enumeration value="replId"/>
121. <xsd:enumeration value="modTransition"/>
122. <xsd:enumeration value="modMedia"/>
123. <xsd:enumeration value="setBg"/>
124. <xsd:enumeration value="setFolMasterAnim"/>
125. <xsd:enumeration value="setFolMasterObjs"/>
126. <xsd:enumeration value="modClrScheme"/>
127. <xsd:enumeration value="addAnim"/>
128. <xsd:enumeration value="delAnim"/>
129. <xsd:enumeration value="modAnim"/>
130. <xsd:enumeration value="replTag"/>
131. <xsd:enumeration value="delTag"/>
132. <xsd:enumeration value="setClrOvrMap"/>
133. <xsd:enumeration value="delDesignElem"/>
134. <xsd:enumeration value="modShow"/>
135. <xsd:enumeration value="addCm"/>
136. <xsd:enumeration value="delCm"/>
137. <xsd:enumeration value="modCm"/>
138. <xsd:enumeration value="chgLayout"/>
139. <xsd:enumeration value="modNotes"/>
140. <xsd:enumeration value="modNotesTx"/>
141. <xsd:enumeration value="setSldSyncInfo"/>
142. <xsd:enumeration value="newSectionLinks"/>
143. </xsd:restriction>
144. </xsd:simpleType>
145. <xsd:simpleType name="ST\_SlideChangeBits">
146. <xsd:list itemType="ST\_SlideChangeBit"/>
147. </xsd:simpleType>
148. <xsd:complexType name="CT\_SlideChanges">
149. <xsd:sequence>
150. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
151. <xsd:element name="sldMkLst" type="CT\_SlideMonikerList" minOccurs="1" maxOccurs="1"/>
152. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
153. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
154. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
155. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
156. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
157. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
158. <xsd:element name="cmChg" type="CT\_CommentChanges" minOccurs="0" maxOccurs="unbounded"/>
159. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
160. </xsd:sequence>
161. <xsd:attribute name="chg" type="ST\_SlideChangeBits" use="required"/>
162. </xsd:complexType>
163. <xsd:simpleType name="ST\_SlideLayoutChangeBit">
164. <xsd:restriction base="xsd:token">
165. <xsd:enumeration value="addSp"/>
166. <xsd:enumeration value="delSp"/>
167. <xsd:enumeration value="modSp"/>
168. <xsd:enumeration value="spOrd"/>
169. <xsd:enumeration value="new"/>
170. <xsd:enumeration value="add"/>
171. <xsd:enumeration value="del"/>
172. <xsd:enumeration value="mod"/>
173. <xsd:enumeration value="ord"/>
174. <xsd:enumeration value="replId"/>
175. <xsd:enumeration value="modTransition"/>
176. <xsd:enumeration value="modMedia"/>
177. <xsd:enumeration value="setBg"/>
178. <xsd:enumeration value="setFolMasterAnim"/>
179. <xsd:enumeration value="setFolMasterObjs"/>
180. <xsd:enumeration value="modClrScheme"/>
181. <xsd:enumeration value="addAnim"/>
182. <xsd:enumeration value="delAnim"/>
183. <xsd:enumeration value="modAnim"/>
184. <xsd:enumeration value="replTag"/>
185. <xsd:enumeration value="delTag"/>
186. <xsd:enumeration value="setClrOvrMap"/>
187. <xsd:enumeration value="delDesignElem"/>
188. <xsd:enumeration value="modShow"/>
189. </xsd:restriction>
190. </xsd:simpleType>
191. <xsd:simpleType name="ST\_SlideLayoutChangeBits">
192. <xsd:list itemType="ST\_SlideLayoutChangeBit"/>
193. </xsd:simpleType>
194. <xsd:complexType name="CT\_SlideLayoutChanges">
195. <xsd:sequence>
196. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
197. <xsd:element name="sldLayoutMkLst" type="CT\_SlideLayoutMonikerList" minOccurs="1" maxOccurs="1"/>
198. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
199. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
200. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
201. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
202. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
203. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
204. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
205. </xsd:sequence>
206. <xsd:attribute name="chg" type="ST\_SlideLayoutChangeBits" use="required"/>
207. </xsd:complexType>
208. <xsd:simpleType name="ST\_MainMasterChangeBit">
209. <xsd:restriction base="xsd:token">
210. <xsd:enumeration value="addSp"/>
211. <xsd:enumeration value="delSp"/>
212. <xsd:enumeration value="modSp"/>
213. <xsd:enumeration value="spOrd"/>
214. <xsd:enumeration value="new"/>
215. <xsd:enumeration value="add"/>
216. <xsd:enumeration value="del"/>
217. <xsd:enumeration value="mod"/>
218. <xsd:enumeration value="ord"/>
219. <xsd:enumeration value="replId"/>
220. <xsd:enumeration value="modTransition"/>
221. <xsd:enumeration value="modMedia"/>
222. <xsd:enumeration value="setBg"/>
223. <xsd:enumeration value="setFolMasterAnim"/>
224. <xsd:enumeration value="setFolMasterObjs"/>
225. <xsd:enumeration value="modClrScheme"/>
226. <xsd:enumeration value="addAnim"/>
227. <xsd:enumeration value="delAnim"/>
228. <xsd:enumeration value="modAnim"/>
229. <xsd:enumeration value="replTag"/>
230. <xsd:enumeration value="delTag"/>
231. <xsd:enumeration value="setClrOvrMap"/>
232. <xsd:enumeration value="delDesignElem"/>
233. <xsd:enumeration value="modShow"/>
234. <xsd:enumeration value="addSldLayout"/>
235. <xsd:enumeration value="delSldLayout"/>
236. <xsd:enumeration value="modSldLayout"/>
237. <xsd:enumeration value="sldLayoutOrd"/>
238. </xsd:restriction>
239. </xsd:simpleType>
240. <xsd:simpleType name="ST\_MainMasterChangeBits">
241. <xsd:list itemType="ST\_MainMasterChangeBit"/>
242. </xsd:simpleType>
243. <xsd:complexType name="CT\_MainMasterChanges">
244. <xsd:sequence>
245. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
246. <xsd:element name="sldMasterMkLst" type="CT\_MainMasterMonikerList" minOccurs="1" maxOccurs="1"/>
247. <xsd:element name="spChg" type="ac:CT\_ShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
248. <xsd:element name="grpChg" type="ac:CT\_GroupShapeChanges" minOccurs="0" maxOccurs="unbounded"/>
249. <xsd:element name="graphicFrameChg" type="ac:CT\_GraphicFrameChanges" minOccurs="0" maxOccurs="unbounded"/>
250. <xsd:element name="picChg" type="ac:CT\_PictureChanges" minOccurs="0" maxOccurs="unbounded"/>
251. <xsd:element name="inkChg" type="ac:CT\_InkChanges" minOccurs="0" maxOccurs="unbounded"/>
252. <xsd:element name="cxnChg" type="ac:CT\_ConnectorChanges" minOccurs="0" maxOccurs="unbounded"/>
253. <xsd:element name="sldLayoutChg" type="CT\_SlideLayoutChanges" minOccurs="0" maxOccurs="unbounded"/>
254. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
255. </xsd:sequence>
256. <xsd:attribute name="chg" type="ST\_MainMasterChangeBits" use="required"/>
257. </xsd:complexType>
258. <xsd:simpleType name="ST\_DocumentChangeBit">
259. <xsd:restriction base="xsd:token">
260. <xsd:enumeration value="undo"/>
261. <xsd:enumeration value="redo"/>
262. <xsd:enumeration value="ext"/>
263. <xsd:enumeration value="custSel"/>
264. <xsd:enumeration value="mod"/>
265. <xsd:enumeration value="addSld"/>
266. <xsd:enumeration value="delSld"/>
267. <xsd:enumeration value="modSld"/>
268. <xsd:enumeration value="sldOrd"/>
269. <xsd:enumeration value="addMainMaster"/>
270. <xsd:enumeration value="delMainMaster"/>
271. <xsd:enumeration value="modMainMaster"/>
272. <xsd:enumeration value="mainMasterOrd"/>
273. <xsd:enumeration value="addSection"/>
274. <xsd:enumeration value="delSection"/>
275. <xsd:enumeration value="modSection"/>
276. <xsd:enumeration value="addCmAuthor"/>
277. <xsd:enumeration value="delCmAuthor"/>
278. <xsd:enumeration value="modCmAuthor"/>
279. <xsd:enumeration value="replTag"/>
280. <xsd:enumeration value="delTag"/>
281. <xsd:enumeration value="addCustShow"/>
282. <xsd:enumeration value="delCustShow"/>
283. <xsd:enumeration value="modCustShow"/>
284. <xsd:enumeration value="modNotesMaster"/>
285. <xsd:enumeration value="modHandout"/>
286. <xsd:enumeration value="modShowInfo"/>
287. <xsd:enumeration value="addOsfTaskPaneApp"/>
288. <xsd:enumeration value="delOsfTaskPaneApp"/>
289. <xsd:enumeration value="setSldSz"/>
290. <xsd:enumeration value="modRtl"/>
291. <xsd:enumeration value="modChgInfo"/>
292. </xsd:restriction>
293. </xsd:simpleType>
294. <xsd:simpleType name="ST\_DocumentChangeBits">
295. <xsd:list itemType="ST\_DocumentChangeBit"/>
296. </xsd:simpleType>
297. <xsd:complexType name="CT\_DocumentChanges">
298. <xsd:sequence>
299. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
300. <xsd:element name="docMkLst" type="CT\_DocumentMonikerList" minOccurs="1" maxOccurs="1"/>
301. <xsd:element name="sldChg" type="CT\_SlideChanges" minOccurs="0" maxOccurs="unbounded"/>
302. <xsd:element name="sldMasterChg" type="CT\_MainMasterChanges" minOccurs="0" maxOccurs="unbounded"/>
303. <xsd:element name="cmAuthorChg" type="CT\_CommentAuthorChanges" minOccurs="0" maxOccurs="unbounded"/>
304. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
305. </xsd:sequence>
306. <xsd:attribute name="chg" type="ST\_DocumentChangeBits" use="required"/>
307. </xsd:complexType>
308. <xsd:complexType name="CT\_DocumentChangesList">
309. <xsd:sequence>
310. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
311. <xsd:element name="docChg" type="CT\_DocumentChanges" minOccurs="0" maxOccurs="unbounded"/>
312. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
313. </xsd:sequence>
314. </xsd:complexType>
315. <xsd:complexType name="CT\_ChangesInfo">
316. <xsd:sequence>
317. <xsd:element name="docChgLst" type="CT\_DocumentChangesList" minOccurs="0" maxOccurs="unbounded"/>
318. </xsd:sequence>
319. </xsd:complexType>
320. <xsd:element name="chgInfo" type="CT\_ChangesInfo"/>
321. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2015/09/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2015/09/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2015/09/main" xmlns:p159="http://schemas.microsoft.com/office/powerpoint/2015/09/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
3. <xsd:simpleType name="ST\_TransitionMorphOption">
4. <xsd:restriction base="xsd:token">
5. <xsd:enumeration value="byObject"/>
6. <xsd:enumeration value="byWord"/>
7. <xsd:enumeration value="byChar"/>
8. </xsd:restriction>
9. </xsd:simpleType>
10. <xsd:complexType name="CT\_MorphTransition">
11. <xsd:attribute name="option" type="ST\_TransitionMorphOption" use="required"/>
12. </xsd:complexType>
13. <xsd:element name="morph" type="CT\_MorphTransition"/>
14. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2015/10/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2015/10/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2015/10/main" xmlns:p1510="http://schemas.microsoft.com/office/powerpoint/2015/10/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
3. <xsd:simpleType name="ST\_ClientID" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
4. <xsd:restriction base="xsd:string"/>
5. </xsd:simpleType>
6. <xsd:simpleType name="ST\_ClientRevisionNumber" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
7. <xsd:restriction base="xsd:unsignedInt"/>
8. </xsd:simpleType>
9. <xsd:complexType name="CT\_ClientRevision" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
10. <xsd:attribute name="id" type="ST\_ClientID" use="required"/>
11. <xsd:attribute name="v" type="ST\_ClientRevisionNumber" use="optional" default="0"/>
12. <xsd:attribute name="vWet" type="ST\_ClientRevisionNumber" use="optional" default="0"/>
13. <xsd:attribute name="dt" type="xsd:dateTime" use="required"/>
14. </xsd:complexType>
15. <xsd:complexType name="CT\_ClientRevisionList" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
16. <xsd:sequence>
17. <xsd:element name="client" type="CT\_ClientRevision" minOccurs="0" maxOccurs="unbounded"/>
18. </xsd:sequence>
19. </xsd:complexType>
20. <xsd:complexType name="CT\_RevisionInfo" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
21. <xsd:sequence>
22. <xsd:element name="revLst" type="CT\_ClientRevisionList" minOccurs="0" maxOccurs="1"/>
23. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
24. </xsd:sequence>
25. </xsd:complexType>
26. <xsd:element name="revInfo" type="CT\_RevisionInfo" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"/>
27. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2015/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2015/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2015/main" xmlns:p16="http://schemas.microsoft.com/office/powerpoint/2015/main" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes">
2. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
5. <xsd:complexType name="CT\_DesignElement">
6. <xsd:attribute name="val" type="xsd:boolean"/>
7. </xsd:complexType>
8. <xsd:element name="designElem" type="CT\_DesignElement"/>
9. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2016/6/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns:p166="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:p14="http://schemas.microsoft.com/office/powerpoint/2010/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2010/main" schemaLocation="ms-pptx14.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
6. <xsd:simpleType name="ST\_ZoomObjectImageType">
7. <xsd:restriction base="xsd:token">
8. <xsd:enumeration value="preview"/>
9. <xsd:enumeration value="cover"/>
10. </xsd:restriction>
11. </xsd:simpleType>
12. <xsd:complexType name="CT\_ZoomObjectProperties">
13. <xsd:sequence>
14. <xsd:element name="blipFill" type="a:CT\_BlipFillProperties" minOccurs="1" maxOccurs="1"/>
15. <xsd:element name="spPr" type="a:CT\_ShapeProperties" minOccurs="1" maxOccurs="1"/>
16. </xsd:sequence>
17. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
18. <xsd:attribute name="returnToParent" type="xsd:boolean" use="optional" default="true"/>
19. <xsd:attribute name="imageType" type="ST\_ZoomObjectImageType" use="optional" default="preview"/>
20. <xsd:attribute name="transitionDur" type="p14:ST\_UniversalTimeOffset" use="optional"/>
21. <xsd:attribute name="showBg" type="xsd:boolean" use="optional" default="true"/>
22. </xsd:complexType>
23. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom" xmlns="http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom" xmlns:psez="http://schemas.microsoft.com/office/powerpoint/2016/sectionzoom" xmlns:p166="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2016/6/main" schemaLocation="ms-pptx166.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
5. <xsd:complexType name="CT\_SectionZoomObject">
6. <xsd:sequence>
7. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
8. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
9. </xsd:sequence>
10. <xsd:attribute name="sectionId" type="s:ST\_Guid" use="required"/>
11. </xsd:complexType>
12. <xsd:complexType name="CT\_SectionZoom">
13. <xsd:sequence>
14. <xsd:element name="sectionZmObj" type="CT\_SectionZoomObject" minOccurs="1" maxOccurs="1"/>
15. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
16. </xsd:sequence>
17. </xsd:complexType>
18. <xsd:element name="sectionZm" type="CT\_SectionZoom"/>
19. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2016/slidezoom Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2016/slidezoom" xmlns="http://schemas.microsoft.com/office/powerpoint/2016/slidezoom" xmlns:pslz="http://schemas.microsoft.com/office/powerpoint/2016/slidezoom" xmlns:p166="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2016/6/main" schemaLocation="ms-pptx166.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
5. <xsd:complexType name="CT\_SlideZoomObject">
6. <xsd:sequence>
7. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
8. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
9. </xsd:sequence>
10. <xsd:attribute name="sldId" type="p:ST\_SlideId" use="required"/>
11. <xsd:attribute name="cId" type="xsd:unsignedInt" use="optional"/>
12. </xsd:complexType>
13. <xsd:complexType name="CT\_SlideZoom">
14. <xsd:sequence>
15. <xsd:element name="sldZmObj" type="CT\_SlideZoomObject" minOccurs="1" maxOccurs="1"/>
16. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
17. </xsd:sequence>
18. </xsd:complexType>
19. <xsd:element name="sldZm" type="CT\_SlideZoom"/>
20. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom" xmlns="http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom" xmlns:psuz="http://schemas.microsoft.com/office/powerpoint/2016/summaryzoom" xmlns:p166="http://schemas.microsoft.com/office/powerpoint/2016/6/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2016/6/main" schemaLocation="ms-pptx166.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
6. <xsd:complexType name="CT\_SummaryZoomObject">
7. <xsd:sequence>
8. <xsd:element name="zmPr" type="p166:CT\_ZoomObjectProperties" minOccurs="1" maxOccurs="1"/>
9. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
10. </xsd:sequence>
11. <xsd:attribute name="sectionId" type="s:ST\_Guid" use="required"/>
12. <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
13. <xsd:attribute name="descr" type="xsd:string" use="optional" default=""/>
14. <xsd:attribute name="offsetFactorX" type="a:ST\_Percentage" use="optional" default="0"/>
15. <xsd:attribute name="offsetFactorY" type="a:ST\_Percentage" use="optional" default="0"/>
16. <xsd:attribute name="scaleFactorX" type="a:ST\_Percentage" use="optional" default="100000"/>
17. <xsd:attribute name="scaleFactorY" type="a:ST\_Percentage" use="optional" default="100000"/>
18. </xsd:complexType>
19. <xsd:complexType name="CT\_GridLayout"/>
20. <xsd:complexType name="CT\_FixedLayout"/>
21. <xsd:complexType name="CT\_SummaryZoom">
22. <xsd:sequence>
23. <xsd:element name="summaryZmObj" type="CT\_SummaryZoomObject" minOccurs="0" maxOccurs="unbounded"/>
24. <xsd:choice minOccurs="1" maxOccurs="1">
25. <xsd:element name="gridLayout" type="CT\_GridLayout"/>
26. <xsd:element name="fixedLayout" type="CT\_FixedLayout"/>
27. </xsd:choice>
28. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
29. </xsd:sequence>
30. </xsd:complexType>
31. <xsd:element name="summaryZm" type="CT\_SummaryZoom"/>
32. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2017/10/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2017/10/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2017/10/main" xmlns:p1710="http://schemas.microsoft.com/office/powerpoint/2017/10/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:complexType name="CT\_ReadonlyRecommended">
3. <xsd:attribute name="val" type="xsd:boolean" use="required"/>
4. </xsd:complexType>
5. <xsd:element name="readonlyRecommended" type="CT\_ReadonlyRecommended"/>
6. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2017/3/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2017/3/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2017/3/main" xmlns:p173="http://schemas.microsoft.com/office/powerpoint/2017/3/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
4. <xsd:simpleType name="ST\_DisplayLocation">
5. <xsd:restriction base="xsd:string">
6. <xsd:enumeration value="media"/>
7. <xsd:enumeration value="slide"/>
8. </xsd:restriction>
9. </xsd:simpleType>
10. <xsd:complexType name="CT\_Track">
11. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
12. <xsd:attribute name="label" type="xsd:string" use="required"/>
13. <xsd:attribute name="lang" type="a:ST\_TextLanguageID" use="optional"/>
14. <xsd:attributeGroup ref="a:AG\_Blob"/>
15. </xsd:complexType>
16. <xsd:complexType name="CT\_TrackList">
17. <xsd:sequence>
18. <xsd:element name="track" type="CT\_Track" minOccurs="0" maxOccurs="unbounded"/>
19. </xsd:sequence>
20. </xsd:complexType>
21. <xsd:complexType name="CT\_TracksInfo">
22. <xsd:sequence>
23. <xsd:element name="trackLst" type="CT\_TrackList" minOccurs="0" maxOccurs="1"/>
24. </xsd:sequence>
25. <xsd:attribute name="displayLoc" type="ST\_DisplayLocation" use="required"/>
26. </xsd:complexType>
27. <xsd:element name="tracksInfo" type="CT\_TracksInfo"/>
28. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2018/4/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2018/4/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2018/4/main" xmlns:p184="http://schemas.microsoft.com/office/powerpoint/2018/4/main" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:simpleType name="ST\_ClassificationOutcomeType">
3. <xsd:restriction base="xsd:token">
4. <xsd:enumeration value="none"/>
5. <xsd:enumeration value="hdr"/>
6. <xsd:enumeration value="ftr"/>
7. <xsd:enumeration value="watermark"/>
8. </xsd:restriction>
9. </xsd:simpleType>
10. <xsd:complexType name="CT\_ClassificationOutcome">
11. <xsd:attribute name="val" type="ST\_ClassificationOutcomeType"/>
12. </xsd:complexType>
13. <xsd:element name="classification" type="CT\_ClassificationOutcome"/>
14. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2018/8/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p223="http://schemas.microsoft.com/office/powerpoint/2022/03/main" xmlns:p228="http://schemas.microsoft.com/office/powerpoint/2022/08/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:pc="http://schemas.microsoft.com/office/powerpoint/2013/main/command" xmlns:ac="http://schemas.microsoft.com/office/drawing/2013/main/command" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/drawing/2013/main/command" schemaLocation="dml-cmd.xsd"/>
3. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2022/03/main" schemaLocation="ms-pptxReactions223.xsd"/>
4. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2022/08/main" schemaLocation="ms-pptxTasks228.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
6. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
7. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
8. <xsd:simpleType name="ST\_AuthorId">
9. <xsd:restriction base="s:ST\_Guid"/>
10. </xsd:simpleType>
11. <xsd:complexType name="CT\_Author">
12. <xsd:sequence>
13. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
14. </xsd:sequence>
15. <xsd:attribute name="id" type="ST\_AuthorId" use="required"/>
16. <xsd:attribute name="name" type="xsd:string" use="required"/>
17. <xsd:attribute name="initials" type="xsd:string" use="optional"/>
18. <xsd:attribute name="userId" type="xsd:string" use="required"/>
19. <xsd:attribute name="providerId" type="xsd:string" use="required"/>
20. </xsd:complexType>
21. <xsd:complexType name="CT\_AuthorList">
22. <xsd:sequence>
23. <xsd:element name="author" type="CT\_Author" minOccurs="0" maxOccurs="unbounded"/>
24. </xsd:sequence>
25. </xsd:complexType>
26. <xsd:simpleType name="ST\_AuthorIdList">
27. <xsd:list itemType="ST\_AuthorId"/>
28. </xsd:simpleType>
29. <xsd:element name="authorLst" type="CT\_AuthorList"/>
30. <xsd:simpleType name="ST\_CommentStatus">
31. <xsd:restriction base="xsd:token">
32. <xsd:enumeration value="active"/>
33. <xsd:enumeration value="resolved"/>
34. <xsd:enumeration value="closed"/>
35. </xsd:restriction>
36. </xsd:simpleType>
37. <xsd:simpleType name="ST\_CommentId">
38. <xsd:restriction base="s:ST\_Guid"/>
39. </xsd:simpleType>
40. <xsd:group name="EG\_CommentProperties">
41. <xsd:sequence>
42. <xsd:element name="txBody" type="a:CT\_TextBody" minOccurs="0" maxOccurs="1"/>
43. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
44. </xsd:sequence>
45. </xsd:group>
46. <xsd:attributeGroup name="AG\_CommentProperties">
47. <xsd:attribute name="id" type="ST\_CommentId" use="required"/>
48. <xsd:attribute name="authorId" type="ST\_AuthorId" use="required"/>
49. <xsd:attribute name="status" type="ST\_CommentStatus" use="optional" default="active"/>
50. <xsd:attribute name="created" type="xsd:dateTime" use="required"/>
51. </xsd:attributeGroup>
52. <xsd:complexType name="CT\_CommentReply">
53. <xsd:sequence>
54. <xsd:group ref="EG\_CommentProperties" minOccurs="1" maxOccurs="1"/>
55. </xsd:sequence>
56. <xsd:attributeGroup ref="AG\_CommentProperties"/>
57. </xsd:complexType>
58. <xsd:complexType name="CT\_CommentReplyList">
59. <xsd:sequence>
60. <xsd:element name="reply" type="CT\_CommentReply" minOccurs="0" maxOccurs="unbounded"/>
61. </xsd:sequence>
62. </xsd:complexType>
63. <xsd:complexType name="CT\_CommentUnknownAnchor"/>
64. <xsd:group name="EG\_CommentAnchor">
65. <xsd:choice>
66. <xsd:element ref="pc:sldMkLst" minOccurs="1" maxOccurs="1"/>
67. <xsd:element ref="ac:deMkLst" minOccurs="0" maxOccurs="unbounded"/>
68. <xsd:element ref="ac:txMkLst" minOccurs="0" maxOccurs="unbounded"/>
69. <xsd:element name="unknownAnchor" type="CT\_CommentUnknownAnchor" minOccurs="1" maxOccurs="1"/>
70. </xsd:choice>
71. </xsd:group>
72. <xsd:complexType name="CT\_Comment">
73. <xsd:sequence>
74. <xsd:group ref="EG\_CommentAnchor" minOccurs="1" maxOccurs="1"/>
75. <xsd:element name="pos" type="a:CT\_Point2D" minOccurs="0" maxOccurs="1"/>
76. <xsd:element name="replyLst" type="CT\_CommentReplyList" minOccurs="0" maxOccurs="1"/>
77. <xsd:group ref="EG\_CommentProperties" minOccurs="1" maxOccurs="1"/>
78. </xsd:sequence>
79. <xsd:attributeGroup ref="AG\_CommentProperties"/>
80. <xsd:attribute name="startDate" type="xsd:dateTime" use="optional"/>
81. <xsd:attribute name="dueDate" type="xsd:dateTime" use="optional"/>
82. <xsd:attribute name="assignedTo" type="ST\_AuthorIdList" use="optional" default=""/>
83. <xsd:attribute name="complete" type="s:ST\_PositiveFixedPercentage" default="0%" use="optional"/>
84. <xsd:attribute name="title" type="xsd:string" use="optional" default=""/>
85. </xsd:complexType>
86. <xsd:complexType name="CT\_CommentList">
87. <xsd:sequence>
88. <xsd:element name="cm" type="CT\_Comment" minOccurs="0" maxOccurs="unbounded"/>
89. </xsd:sequence>
90. </xsd:complexType>
91. <xsd:element name="cmLst" type="CT\_CommentList"/>
92. <xsd:complexType name="CT\_CommentRelationship">
93. <xsd:attribute ref="r:id" use="required"/>
94. </xsd:complexType>
95. <xsd:element name="commentRel" type="CT\_CommentRelationship"/>
96. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2019/9/main/command Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2019/9/main/command" xmlns="http://schemas.microsoft.com/office/powerpoint/2019/9/main/command" xmlns:pc2="http://schemas.microsoft.com/office/powerpoint/2019/9/main/command" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main">
2. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2018/8/main" schemaLocation="ms-pptx188.xsd"/>
3. <xsd:complexType name="CT\_CommentV2MonikerList">
4. <xsd:sequence>
5. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
6. </xsd:sequence>
7. </xsd:complexType>
8. <xsd:complexType name="CT\_CommentReplyV2MonikerList">
9. <xsd:sequence>
10. <xsd:any minOccurs="0" maxOccurs="unbounded"/>
11. </xsd:sequence>
12. </xsd:complexType>
13. <xsd:element name="cmMkLst" type="CT\_CommentV2MonikerList"/>
14. <xsd:element name="cmRplyMkLst" type="CT\_CommentReplyV2MonikerList"/>
15. <xsd:complexType name="CT\_CommentV2Moniker">
16. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
17. </xsd:complexType>
18. <xsd:complexType name="CT\_CommentReplyV2Moniker">
19. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
20. </xsd:complexType>
21. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2020/02/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2020/02/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2020/02/main" xmlns:p202="http://schemas.microsoft.com/office/powerpoint/2020/02/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/drawingml/2006/main" schemaLocation="dml-main.xsd"/>
3. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
5. <xsd:complexType name="CT\_DesignerTag">
6. <xsd:attribute name="name" type="xsd:string" use="required"/>
7. <xsd:attribute name="val" type="xsd:string" use="required"/>
8. </xsd:complexType>
9. <xsd:complexType name="CT\_DesignerTagList">
10. <xsd:sequence>
11. <xsd:element name="designTag" type="CT\_DesignerTag" minOccurs="0" maxOccurs="unbounded"/>
12. </xsd:sequence>
13. </xsd:complexType>
14. <xsd:element name="designTagLst" type="CT\_DesignerTagList"/>
15. <xsd:complexType name="CT\_DesignerDrawingProps">
16. <xsd:sequence>
17. <xsd:element ref="p202:designTagLst" minOccurs="0" maxOccurs="1"/>
18. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
19. </xsd:sequence>
20. <xsd:attribute name="edtDesignElem" type="xsd:boolean" use="optional" default="false"/>
21. </xsd:complexType>
22. <xsd:element name="designPr" type="CT\_DesignerDrawingProps"/>
23. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2022/03/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2022/03/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2022/03/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:complexType name="CT\_ReactionInstance" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main">
3. <xsd:sequence>
4. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
5. </xsd:sequence>
6. <xsd:attribute name="time" type="xsd:dateTime" use="required"/>
7. <xsd:attribute name="authorId" type="p188:ST\_AuthorId" use="required"/>
8. </xsd:complexType>
9. <xsd:complexType name="CT\_Reaction" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main">
10. <xsd:sequence>
11. <xsd:element name="instance" type="CT\_ReactionInstance" minOccurs="0" maxOccurs="unbounded"/>
12. </xsd:sequence>
13. <xsd:attribute name="type" type="xsd:string" use="required"/>
14. </xsd:complexType>
15. <xsd:complexType name="CT\_Reactions" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main">
16. <xsd:sequence>
17. <xsd:element name="rxn" type="CT\_Reaction" minOccurs="0" maxOccurs="unbounded"/>
18. </xsd:sequence>
19. </xsd:complexType>
20. <xsd:element name="reactions" type="CT\_Reactions" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main"/>
21. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2022/06/main/command Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2022/06/main/command" xmlns="http://schemas.microsoft.com/office/powerpoint/2022/06/main/command" xmlns:pc226="http://schemas.microsoft.com/office/powerpoint/2022/06/main/command" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:pc2="http://schemas.microsoft.com/office/powerpoint/2019/9/main/command" xmlns:ac="http://schemas.microsoft.com/office/drawing/2013/main/command" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.microsoft.com/office/drawing/2013/main/command" schemaLocation="dml-cmd.xsd"/>
3. <xsd:import namespace="http://schemas.microsoft.com/office/powerpoint/2019/9/main/command" schemaLocation="ms-pptxMonikerList2.xsd"/>
4. <xsd:import namespace="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" schemaLocation="shared-commonSimpleTypes.xsd"/>
5. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
6. <xsd:simpleType name="ST\_CommentReplyV2ChangeBit">
7. <xsd:restriction base="xsd:token">
8. <xsd:enumeration value="add"/>
9. <xsd:enumeration value="del"/>
10. <xsd:enumeration value="mod"/>
11. <xsd:enumeration value="modRxn"/>
12. </xsd:restriction>
13. </xsd:simpleType>
14. <xsd:simpleType name="ST\_CommentReplyV2ChangeBits">
15. <xsd:list itemType="ST\_CommentReplyV2ChangeBit"/>
16. </xsd:simpleType>
17. <xsd:complexType name="CT\_CommentReplyV2Changes">
18. <xsd:sequence>
19. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
20. <xsd:element ref="pc2:cmRplyMkLst" minOccurs="1" maxOccurs="1"/>
21. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
22. </xsd:sequence>
23. <xsd:attribute name="chg" type="ST\_CommentReplyV2ChangeBits" use="required"/>
24. </xsd:complexType>
25. <xsd:simpleType name="ST\_CommentV2ChangeBit">
26. <xsd:restriction base="xsd:token">
27. <xsd:enumeration value="add"/>
28. <xsd:enumeration value="del"/>
29. <xsd:enumeration value="mod"/>
30. <xsd:enumeration value="modTsk"/>
31. <xsd:enumeration value="modRxn"/>
32. </xsd:restriction>
33. </xsd:simpleType>
34. <xsd:simpleType name="ST\_CommentV2ChangeBits">
35. <xsd:list itemType="ST\_CommentV2ChangeBit"/>
36. </xsd:simpleType>
37. <xsd:complexType name="CT\_CommentV2Changes">
38. <xsd:sequence>
39. <xsd:element name="chgData" type="ac:CT\_ChangesData" minOccurs="0" maxOccurs="1"/>
40. <xsd:element ref="pc2:cmMkLst" minOccurs="1" maxOccurs="1"/>
41. <xsd:element name="cmRplyChg" type="CT\_CommentReplyV2Changes" minOccurs="0" maxOccurs="unbounded"/>
42. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
43. </xsd:sequence>
44. <xsd:attribute name="chg" type="ST\_CommentV2ChangeBits" use="required"/>
45. </xsd:complexType>
46. <xsd:element name="cmChg" type="CT\_CommentV2Changes"/>
47. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2022/08/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2022/08/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2022/08/main" xmlns:a="http://schemas.openxmlformats.org/drawingml/2006/main" xmlns:p188="http://schemas.microsoft.com/office/powerpoint/2018/8/main" xmlns:s="http://schemas.openxmlformats.org/officeDocument/2006/sharedTypes" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:complexType name="CT\_TaskScheduleEventInfo" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
3. <xsd:attribute name="stDt" type="xsd:dateTime" use="optional"/>
4. <xsd:attribute name="endDt" type="xsd:dateTime" use="optional"/>
5. </xsd:complexType>
6. <xsd:complexType name="CT\_TaskProgressEventInfo" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
7. <xsd:attribute name="val" type="s:ST\_PositiveFixedPercentage" use="required"/>
8. </xsd:complexType>
9. <xsd:complexType name="CT\_TaskTitleEventInfo" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
10. <xsd:attribute name="val" type="xsd:string" use="required"/>
11. </xsd:complexType>
12. <xsd:complexType name="CT\_TaskAssignUnassignUser" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
13. <xsd:attribute name="authorId" type="p188:ST\_AuthorId" use="required"/>
14. </xsd:complexType>
15. <xsd:complexType name="CT\_TaskUnknownRecord" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd"/>
16. <xsd:complexType name="CT\_CommentAnchor" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
17. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
18. </xsd:complexType>
19. <xsd:complexType name="CT\_TaskAnchor" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
20. <xsd:sequence>
21. <xsd:element name="comment" type="CT\_CommentAnchor" minOccurs="1" maxOccurs="1"/>
22. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
23. </xsd:sequence>
24. </xsd:complexType>
25. <xsd:complexType name="CT\_TaskUndo" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
26. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
27. </xsd:complexType>
28. <xsd:complexType name="CT\_TaskHistoryEvent" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
29. <xsd:sequence>
30. <xsd:element name="atrbtn" type="CT\_TaskAssignUnassignUser" minOccurs="1" maxOccurs="1"/>
31. <xsd:element name="anchr" type="CT\_TaskAnchor" minOccurs="0" maxOccurs="1"/>
32. <xsd:choice minOccurs="0" maxOccurs="1">
33. <xsd:element name="asgn" type="CT\_TaskAssignUnassignUser" minOccurs="1" maxOccurs="1"/>
34. <xsd:element name="add" type="p:CT\_Empty" minOccurs="0" maxOccurs="1"/>
35. <xsd:element name="title" type="CT\_TaskTitleEventInfo" minOccurs="1" maxOccurs="1"/>
36. <xsd:element name="date" type="CT\_TaskScheduleEventInfo" minOccurs="1" maxOccurs="1"/>
37. <xsd:element name="pcntCmplt" type="CT\_TaskProgressEventInfo" minOccurs="1" maxOccurs="1"/>
38. <xsd:element name="unasgnAll" type="p:CT\_Empty" minOccurs="0" maxOccurs="1"/>
39. <xsd:element name="undo" type="CT\_TaskUndo" minOccurs="1" maxOccurs="1"/>
40. <xsd:element name="unknown" type="CT\_TaskUnknownRecord" minOccurs="1" maxOccurs="1"/>
41. </xsd:choice>
42. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
43. </xsd:sequence>
44. <xsd:attribute name="time" type="xsd:dateTime" use="required"/>
45. <xsd:attribute name="id" type="s:ST\_Guid" use="required"/>
46. </xsd:complexType>
47. <xsd:complexType name="CT\_TaskHistory" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
48. <xsd:sequence>
49. <xsd:element name="event" type="CT\_TaskHistoryEvent" minOccurs="0" maxOccurs="unbounded"/>
50. </xsd:sequence>
51. </xsd:complexType>
52. <xsd:complexType name="CT\_TaskDetails" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd">
53. <xsd:sequence>
54. <xsd:element name="history" type="CT\_TaskHistory" minOccurs="1" maxOccurs="1"/>
55. <xsd:element name="extLst" type="p:CT\_ExtensionList" minOccurs="0" maxOccurs="1"/>
56. </xsd:sequence>
57. </xsd:complexType>
58. <xsd:element name="taskDetails" type="CT\_TaskDetails" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:odoc="http://schemas.microsoft.com/internal/obd"/>
59. </xsd:schema>

## http://schemas.microsoft.com/office/powerpoint/2023/02/main Schema

1. <xsd:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/office/powerpoint/2023/02/main" xmlns="http://schemas.microsoft.com/office/powerpoint/2023/02/main" xmlns:p="http://schemas.openxmlformats.org/presentationml/2006/main" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <xsd:import namespace="http://schemas.openxmlformats.org/presentationml/2006/main" schemaLocation="pml.xsd"/>
3. <xsd:complexType name="CT\_PlaceholderTypeACB">
4. <xsd:sequence>
5. <xsd:choice minOccurs="1" maxOccurs="1">
6. <xsd:element name="cameo" type="p:CT\_Empty"/>
7. <xsd:element name="unknown" type="p:CT\_Empty"/>
8. </xsd:choice>
9. </xsd:sequence>
10. </xsd:complexType>
11. <xsd:complexType name="CT\_PlaceholderTypeExtension">
12. <xsd:sequence>
13. <xsd:element name="type" type="CT\_PlaceholderTypeACB" minOccurs="1" maxOccurs="1"/>
14. </xsd:sequence>
15. </xsd:complexType>
16. <xsd:element name="phTypeExt" type="CT\_PlaceholderTypeExtension"/>
17. </xsd:schema>

# Appendix B: 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 2013
* Microsoft PowerPoint Online
* Microsoft PowerPoint 2016
* Microsoft PowerPoint 2019
* Microsoft PowerPoint 2021

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 2.2.3.1](#Appendix_A_Target_1): This child element is not available in PowerPoint 2013 and earlier.

[<2> Section 2.2.10](#Appendix_A_Target_2): This extension is not available in Microsoft PowerPoint 2010 and earlier.

[<3> Section 2.2.10](#Appendix_A_Target_3): This extension is not available in PowerPoint 2010 and earlier.

[<4> Section 2.2.10](#Appendix_A_Target_4): This extension is available only in Microsoft Office 365.

[<5> Section 2.2.11](#Appendix_A_Target_5): This extension is not available in PowerPoint 2010 and earlier.

[<6> Section 2.2.11](#Appendix_A_Target_6): This extension is not available in PowerPoint 2010 and earlier.

[<7> Section 2.2.11](#Appendix_A_Target_7): This extension is not available in PowerPoint 2010 and earlier.

[<8> Section 2.2.11](#Appendix_A_Target_8): This extension is not available in PowerPoint 2010 and earlier.

[<9> Section 2.2.11](#Appendix_A_Target_9): This extension is not available in PowerPoint 2010 and earlier.

[<10> Section 2.2.12](#Appendix_A_Target_10): This extension is not available in PowerPoint 2010 and earlier.

[<11> Section 2.2.14](#Appendix_A_Target_11): This extension is not available in PowerPoint 2013 and earlier.

[<12> Section 2.2.16](#Appendix_A_Target_12): This extension is not available in PowerPoint 2013 and earlier.

[<13> Section 2.2.17](#Appendix_A_Target_13): This extension is not available in PowerPoint 2013 and earlier.

[<14> Section 2.2.18](#Appendix_A_Target_14): This extension is not available in PowerPoint 2013 and earlier.

[<15> Section 2.2.19](#Appendix_A_Target_15): This extension is not available in PowerPoint 2016 and earlier.

[<16> Section 2.2.20](#Appendix_A_Target_16): This extension is not available in PowerPoint 2016 and earlier.

[<17> Section 2.4.1.1](#Appendix_A_Target_17): This element is not available in PowerPoint 2010 and earlier.

[<18> Section 2.4.1.2](#Appendix_A_Target_18): This element is available as of February 10, 2015 update for PowerPoint 2013.

[<19> Section 2.4.1.3](#Appendix_A_Target_19): This element is not available in PowerPoint 2010 and earlier.

[<20> Section 2.4.1.4](#Appendix_A_Target_20): This element is not available in PowerPoint 2010 and earlier.

[<21> Section 2.4.1.6](#Appendix_A_Target_21): This element is not available in PowerPoint 2010 and earlier.

[<22> Section 2.4.1.7](#Appendix_A_Target_22): This element is not available in PowerPoint 2010 and earlier.

[<23> Section 2.4.3.1](#Appendix_A_Target_23): This type is not available in PowerPoint 2010 and earlier.

[<24> Section 2.4.3.2](#Appendix_A_Target_24): This type is not available in PowerPoint 2010 and earlier.

[<25> Section 2.4.3.3](#Appendix_A_Target_25): This type is not available in PowerPoint 2010 and earlier.

[<26> Section 2.4.3.4](#Appendix_A_Target_26): This type is not available in PowerPoint 2010 and earlier.

[<27> Section 2.4.3.5](#Appendix_A_Target_27): This type is available as of February 10, 2015 update for PowerPoint 2013.

[<28> Section 2.4.3.6](#Appendix_A_Target_28): This type is not available in PowerPoint 2010 and earlier.

[<29> Section 2.4.3.7](#Appendix_A_Target_29): This type is not available in PowerPoint 2010 and earlier.

[<30> Section 2.4.3.7](#Appendix_A_Target_30): This value is only available when used with Office 365.

[<31> Section 2.4.3.7](#Appendix_A_Target_31): Older versions of Microsoft PowerPoint Online on Office 365 emitted values consisting of a unique identifier followed by the constant text "@LIVE.COM".

[<32> Section 2.5.3.1](#Appendix_A_Target_32): This type not available in PowerPoint 2013 and earlier.

[<33> Section 2.15.3.1](#Appendix_A_Target_33): This type is not available in PowerPoint 2013 and earlier.

[<34> Section 2.17.3.1](#Appendix_A_Target_34): This type is not available PowerPoint 2016 and earlier.

[<35> Section 2.17.3.2](#Appendix_A_Target_35): This type is not available PowerPoint 2016 and earlier.

[<36> Section 2.17.3.3](#Appendix_A_Target_36): This type is not available PowerPoint 2016 and earlier.

# 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 |
| --- | --- | --- |
| [2.22](#Section_44f51db8602a43aab6c318201eb9df6e) http://schemas.microsoft.com/office/powerpoint/2023/02/main | Added new schema http://schemas.microsoft.com/office/powerpoint/2023/02/main. | Major |

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