

[MS-3DMDTP]:

Data Visualization: 3-D Map Data Tour File Format

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Revision Summary

Date	Revision History	Revision Class	Comments
2/10/2014	0.1	New	Released new document.
4/30/2014	1.0	Major	Significantly changed the technical content.
7/31/2014	1.1	Minor	Clarified the meaning of the technical content.
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1 Introduction

The 3-D Map Data Tour file format is used to display an interactive 3-D visualization of data over a map. The visualization can contain multiple parts which focus on one or multiple places on the map and depict different time scales and the events associated with the data.

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

1.1 Glossary

This document uses the following terms:

animation: A record of synthetic, successive still images that produce an illusion of movement when played back.

camera: A virtual representation of a camera that controls the position of the viewer window inside the 3-D environment.

data point: An individual value that is plotted in a chart and is represented together with other data points by bars, columns, lines, pie or doughnut slices, dots, and various other shapes, which are referred to as data markers. Data markers of the same color constitute a data series.

effect: A user-specified **camera** motion that occurs for the duration of a **scene**.

scene: An independent part of a **tour** that has a beginning and end, and a specific time duration in which a particular data visualization on the map occurs.

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

ToolTip: A small pop-up window that provides brief context-sensitive help when users point to an item. Also referred to as ScreenTip.

tour: A **scene** or sequence of scenes that describe a story about geographical locations, time periods, and data visualization.

transition: The **camera** path and time period that connects one **scene** to another.

workbook: A container for a collection of sheets.

XML: The Extensible Markup Language, as described in [\[XML1.0\]](#).

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

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

1.2 References

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

1.2.1 Normative References

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

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

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

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

1.2.2 Informative References

None.

1.3 Overview

This structure allows the exploration and visualization of data on a map, which can be a flat 3-D surface or a 3-D globe. This structure allows for animating over time and visualization of historical trends of the data over time. This structure also allows for various levels of visualization using 2-D visuals which can be anchored to the top level of the 3D environment. These 2-D visuals can be text boxes or flat 2-D charts that provide more insights into the data. This structure is capable of displaying multiple layers of data and users can change specific visual properties of the extrusions representing the accumulated data on the globe. It is also possible to animate the data using different aggregation options over time, or partition the **animation** over common units of time – such as days, weeks, or months. This structure supports annotations that are anchored to data extrusions, and the annotations can contain custom text and/or generic **ToolTips** which are derived from the data. This structure can support different styles of data shapes and visual map **themes**, and different chart types, such as heat maps or pie charts which appear as data extrusions in the data. The structure supports sequencing of different parts which are called **scenes**; a specific sequence of these scenes is called a **tour**. Each scene has a specific motion to it, called a **transition**, as well as motion which is an option for the duration of the scene, called an **effect**.

1.4 Relationship to Protocols and Other Structures

This structure depends on geocoding and mapping services. These are public and can be provided from a variety of vendors. This structure also depends on data query APIs for data rendering in the 3-D environment.

1.5 Applicability Statement

This structure should be used when an application renders a 3-D geospatial data collection of **scenes** which collectively describe a story about data on a map inside a 3-D mapped environment.

1.6 Versioning and Localization

Structure Versions: This structure specifies the only version of the 3-D Map Data Tour file format.

- Localization: The file format allows one or more of the following elements to be stored in their localized form.
 - Workbook column names

- **Tour** name
- Scene name
- Layer name
- Text box content
- Annotation content
- Date and time format

1.7 Vendor-Extensible Fields

None.

2 Structures

2.1 Complex Types

2.1.1 CT_Camera

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

Referenced by: [CT_Frame](#)

Specifies the position of the **camera** in the initial frame of a **scene**.

Child Elements:

Latitude: An **xs:decimal** ([\[XMLSCHEMA2/2\]](#) section 3.2.3) element that specifies the latitude of the camera target in degrees.

Longitude: An **xs:decimal** ([\[XMLSCHEMA2/2\]](#) section 3.2.3) element that specifies the longitude of the camera target in degrees.

Rotation: An **xs:decimal** ([\[XMLSCHEMA2/2\]](#) section 3.2.3) element that specifies the rotation angle of the camera in radians. This value is zero when the camera is pointing north.

PivotAngle: An **xs:decimal** ([\[XMLSCHEMA2/2\]](#) section 3.2.3) element that specifies the vertical angle between a tangential plane at the target point and the line drawn from the target to the camera.

Distance: An **xs:decimal** ([\[XMLSCHEMA2/2\]](#) section 3.2.3) element that specifies the normalized camera distance to the target position. A distance of 1.0 equals the radius of the earth.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Camera">
  <xsd:sequence>
    <xsd:element name="Latitude" type="xsd:decimal"/>
    <xsd:element name="Longitude" type="xsd:decimal"/>
    <xsd:element name="Rotation" type="xsd:decimal"/>
    <xsd:element name="PivotAngle" type="xsd:decimal"/>
    <xsd:element name="Distance" type="xsd:decimal"/>
  </xsd:sequence>
</xsd:complexType>
```

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

2.1.2 CT_CustomMapList

Target namespace: <http://microsoft.data.visualization.Client.Excel.CustomMapList/1.0>

Referenced by: [CustomMapList](#)

Specifies the custom maps stored in a **workbook**.

Child Elements:

ml: A **xs:string** ([\[XMLSCHEMA2/2\]](#) section 3.2.1) element that specifies the image for a custom map.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```

<xsd:complexType name="CT_CustomMapList">
  <xsd:sequence>
    <xsd:element name="ml" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

```

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

2.1.3 CT_CustomRegionState

Target namespace: <http://microsoft.data.visualization.Client.Excel.CustomRegionState/1.0>

Referenced by: [CustomRegionState](#)

Specifies the custom regions stored in a **workbook**.

Child Elements:

rl: A `xs:string` ([XMLSCHEMA2/2] section 3.2.1) element that specifies the compressed contents of a set of custom regions.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```

<xsd:complexType name="CT_CustomRegionState">
  <xsd:sequence>
    <xsd:element name="rl" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

```

See section [5.5](#) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.1.4 CT_Frame

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

Referenced by: [CT_Scene](#)

Specifies the initial frame of a **scene**.

Child Elements:

Camera: A **CT_Camera** (section [2.1.1](#)) element that specifies the parameters of the **camera** in its initial position in the frame.

Image: A `xs:string` ([XMLSCHEMA2/2] section 3.2.1) element that specifies the image for the frame.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```

<xsd:complexType name="CT_Frame">
  <xsd:sequence>
    <xsd:element name="Camera" type="tns:CT_Camera"/>
    <xsd:element name="Image" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>

```

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

2.1.5 CT_Scene

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

Referenced by: [CT Scenes](#)

Specifies a **scene** in the **tour**.

Child Elements:

Transition: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the type of **camera transition** for this scene. Can only be set to "MoveTo".

Effect: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the camera motion **effect**. Possible values are "Station", "Circle", "Dolly", "FlyOver", "PushIn", "Figure8" and "RotateGlobe".

Theme: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the type of **theme** applied to this scene. Possible values are "BingRoad", "BingRoadHighContrast", "Aerial", "Grey", "Dark", "Light", "Mono", "White", "Earthy", "Modern", "Organic", and "Radiate".

ThemeWithLabel: An **xs:boolean** ([XMLSCHEMA2/2] section 3.2.2) element that specifies whether a theme with labels enabled has been applied to this scene. A value of 1 indicates that a theme with labels enabled has been applied to this scene; a value of 0 indicates that a theme with labels enabled has not been applied to this scene.

FlatModeEnabled: An **xs:boolean** ([XMLSCHEMA2/2] section 3.2.2) element that specifies whether the scene has a 3-D map represented as a globe. A value of 1 indicates that the map is represented in as a globe; a value of 0 indicates that the map is represented as a flat surface.

Duration: An **xs:unsignedInt** ([XMLSCHEMA2/2] section 3.3.22) element that specifies the scene duration in 100-nanosecond units.

TransitionDuration: An **xs:unsignedInt** ([XMLSCHEMA2/2] section 3.3.22) element that specifies the duration of the scene transition in 100-nanosecond units.

Speed: An **xs:decimal** ([XMLSCHEMA2/2] section 3.2.3) element that specifies the relative speed of the scene effect. Possible values lie between 0 and 1.

Frame: A **CT_Frame** (section [2.1.4](#)) element that specifies the first frame of this scene in the 3D Map tour.

LayersContent: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the contents of a scene in the tour.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Scene">
  <xsd:sequence>
    <xsd:element name="Transition" type="xsd:string"/>
    <xsd:element name="Effect" type="xsd:string"/>
    <xsd:element name="Theme" type="xsd:string"/>
    <xsd:element name="ThemeWithLabel" type="xsd:boolean"/>
    <xsd:element name="FlatModeEnabled" type="xsd:boolean"/>
    <xsd:element name="Duration" type="xsd:unsignedInt"/>
    <xsd:element name="TransitionDuration" type="xsd:unsignedInt"/>
    <xsd:element name="Speed" type="xsd:decimal"/>
    <xsd:element name="Frame" type="tns:CT_Frame"/>
    <xsd:element name="LayersContent" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>
```

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

2.1.6 CT_Scenes

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

Referenced by: [CT_Tour](#)

Specifies the collection of **scenes** in the 3D Map **tour**. There is at least one scene per tour.

Child Elements:

Scene: A **CT_Scene** (section [2.1.5](#)) element that specifies a scene in a 3D Map tour.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Scenes">
  <xsd:sequence>
    <xsd:element maxOccurs="unbounded" name="Scene" type="tns:CT_Scene"/>
  </xsd:sequence>
</xsd:complexType>
```

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

2.1.7 CT_Tour

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

Referenced by: [Tour](#)

Specifies a **tour** comprised of one or more **scenes** in a 3D Map.

Child Elements:

Scenes: A **CT_Scenes** (section [2.1.6](#)) element that specifies a collection of scenes within the tour.

Attributes:

Name: An **xs:string** ([\[XMLSCHEMA2/2\]](#) section 3.2.1) attribute that specifies the name of the tour.

Description: An **xs:string** ([\[XMLSCHEMA2/2\]](#) section 3.2.1) attribute that specifies the description of the tour.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Tour">
  <xsd:sequence>
    <xsd:element name="Scenes" type="tns:CT_Scenes"/>
  </xsd:sequence>
  <xsd:attribute name="Name" type="xsd:string" use="required"/>
  <xsd:attribute name="Description" type="xsd:string" use="required"/>
</xsd:complexType>
```

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

2.1.8 CT_Tour

Target namespace: <http://microsoft.data.visualization.Client.Excel/1.0>

Referenced by: [CT Tours](#)

Specifies a 3D Map **tour**.

Child Elements:

Description: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the description of the tour.

Image: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) element that specifies the image that represents the tour.

Attributes:

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

Id: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies a unique identifier for the version of the tour.

TourId: An **xs:string** ([XMLSCHEMA2/2] section 3.2.1) attribute that specifies a unique identifier for the tour.

XmlVer: An **xs:unsignedByte** ([XMLSCHEMA2/2] section 3.3.24) attribute that specifies the current version of the **XML** representation of the tour.

MinXmlVer: An **xs:unsignedByte** ([XMLSCHEMA2/2] section 3.3.24) attribute that specifies the minimum compatible XML version of the tour.

The following W3C XML Schema ([XMLSCHEMA1/2] section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT Tour">
  <xsd:sequence>
    <xsd:element name="Description" type="xsd:string"/>
    <xsd:element name="Image" type="xsd:string"/>
  </xsd:sequence>
  <xsd:attribute name="Name" type="xsd:string" use="required"/>
  <xsd:attribute name="Id" type="xsd:string" use="required"/>
  <xsd:attribute name="TourId" type="xsd:string" use="required"/>
  <xsd:attribute name="XmlVer" type="xsd:unsignedByte" use="required"/>
  <xsd:attribute name="MinXmlVer" type="xsd:unsignedByte" use="required"/>
</xsd:complexType>
```

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

2.1.9 CT_Tours

Target namespace: <http://microsoft.data.visualization.Client.Excel/1.0>

Referenced by: [CT Visualization](#)

Specifies the collection of **tours** contained within a **workbook**.

Child Elements:

Tour: A **CT_Tour** (section [2.1.8](#)) element that specifies a tour.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Tours">
  <xsd:sequence>
    <xsd:element maxOccurs="unbounded" name="Tour" type="tns:CT_Tour"/>
  </xsd:sequence>
</xsd:complexType>
```

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

2.1.10 CT_Visualization

Target namespace: <http://microsoft.data.visualization.Client.Excel/1.0>

Referenced by: [Visualization](#)

Specifies the 3-D visualizations stored in a **workbook**.

Child Elements:

Tours: A **CT_Tours** (section [2.1.9](#)) element that specifies the collection of **tours** stored in the workbook.

Colors: An **xs:anyType** ([\[XMLSCHEMA1/2\]](#) section 3.4.7) element that specifies the custom color palette selected by the user for the visualizations.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_Visualization">
  <xsd:sequence>
    <xsd:element name="Tours" type="tns:CT_Tours"/>
    <xsd:element name="Colors"/>
  </xsd:sequence>
</xsd:complexType>
```

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

2.1.11 CT_VisualizationLState

Target namespace: <http://microsoft.data.visualization.Client.Excel.LState/1.0>

Referenced by: [VisualizationLState](#)

Specifies a container for geocoded **data points** within a 3D Map.

Child Elements:

cg: An **xs:string** ([\[XMLSCHEMA2/2\]](#) section 3.2.1) element that specifies the geocoded data points.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_VisualizationLState">
  <xsd:sequence>
    <xsd:element name="cg" type="xsd:string"/>
  </xsd:sequence>
```

```
</xsd:complexType>
```

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

2.1.12 CT_VisualizationPState

Target namespace: <http://microsoft.data.visualization.Client.Excel.PState/1.0>

Referenced by: [VisualizationPState](#)

Specifies the container for data used for mapping regions.

Child Elements:

rp: An **xs:string** ([\[XMLSCHEMA2/2\]](#) section 3.2.1) element that specifies the region polygons.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this complex type.

```
<xsd:complexType name="CT_VisualizationPState">
  <xsd:sequence>
    <xsd:element name="rp" type="xsd:string"/>
  </xsd:sequence>
</xsd:complexType>
```

See section [5.3](#) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.2 Elements

2.2.1 CustomMapList

Target namespace: <http://microsoft.data.visualization.Client.Excel.CustomMapList/1.0>

A [CT_CustomMapList](#) element that specifies the custom maps stored in the **workbook**.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="CustomMapList" type="tns:CT_CustomMapList"/>
```

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

2.2.2 CustomRegionState

Target namespace: <http://microsoft.data.visualization.Client.Excel.CustomRegionState/1.0>

A [CT_CustomRegionState](#) element that specifies the custom regions stored in the **workbook**.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="CustomRegionState" type="tns:CT_CustomRegionState"/>
```

See section [5.5](#) for the full W3C XML Schema ([XMLSCHEMA1/2] section 2.1).

2.2.3 Tour

Target namespace: <http://microsoft.data.visualization.engine.tours/1.0>

A **CT_Tour** (section [2.1.7](#)) element that specifies a **tour** in a 3D Map.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="Tour" type="tns:CT_Tour"/>
```

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

2.2.4 Visualization

Target namespace: <http://microsoft.data.visualization.Client.Excel/1.0>

A **CT_Visualization** (section [2.1.10](#)) element that specifies the 3-D visualizations stored in the **workbook**.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="Visualization" type="tns:CT_Visualization"/>
```

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

2.2.5 VisualizationLState

Target namespace: <http://microsoft.data.visualization.Client.Excel.LState/1.0>

A **CT_VisualizationLState** (section [2.1.11](#)) element that specifies a container for geocoded **data points**.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="VisualizationLState" type="tns:CT_VisualizationLState"/>
```

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

2.2.6 VisualizationPState

Target namespace: <http://microsoft.data.visualization.Client.Excel.PState/1.0>

A **CT_VisualizationPState** (section [2.1.12](#)) element that specifies a container for data used for region mappings.

The following W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1) fragment specifies the contents of this element.

```
<xsd:element name="VisualizationPState" type="tns:CT_VisualizationPState"/>
```

See section [5.3](#) for the full W3C XML Schema ([\[XMLSCHEMA1/2\]](#) section 2.1).

3 Structure Examples

The following is an example of the structure with a **tour** that has a single **scene**.

```
<?xml version="1.0" encoding="UTF-16"?>
<Tour xmlns="http://microsoft.data.visualization.engine.tours/1.0" Description="Some
description for the tour goes here" Name="Tour 1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"><Scenes><Scene><Transition>MoveTo</Transition><E
ffect>Station</Effect><Theme>White</Theme><ThemeWithLabel>>false</ThemeWithLabel><FlatModeEnab
led>>false</FlatModeEnabled><Duration>60000000</Duration><TransitionDuration>30000000</Transit
ionDuration><Speed>0.5</Speed><Frame><Camera><Latitude>40.968825575557013</Latitude><Longitud
e>-111.36067867162427</Longitude><Rotation>0</Rotation><PivotAngle>-
0.19670261929383437</PivotAngle><Distance>0.6</Distance></Camera><Image>iVBORw0KGgoAAAANSUHEU
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```


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YU/LkUmEdpGsrwKipwaCaZc8w52opFEmII1Afqzz8m7e+dpNkoo1+nnYJ01oTioj788EPbu3evsymHDBni3
kHjuRMXK1XbXKDbJCa4m08OFIE3hYwf/vSn7IHAN77xjRoXf8Z7KcFJnzWhhuKepCfToyE0FOIYDG3GYB4
yhV8XGWTutBiSfIRPGoV5ROGRfi2MmG0+ocKgf99FThrQD9oNJYIGRjGIRdIppdfffNN1xjMk/tyBB668ld0c
CQW41VS363t8VM+fvMwnPSYUI1UPjtRjbGvXRcgBeeH5ElsEX4E35IkQR2sKrnHRQSBfiAOZKF/n3BoJPV
BoEYepNLTdKtig7pHMBmzeS7tNfsWhqzKkuEb1XHxMVdbnZpoMFksJznJrjHzJ9D1ZNQbXgOUg/pywBNv
YdCraqOET9/w55N01DmRUEYOkmCyMZ/MK2kWfRZSjklD0mLqI9MQhDR9Iw/EjjTBefASSuORp5A1ofCvSv
PPO06707/fv31zL5csLOH5id/Sh5kH9wuwQGxb/1ojs+SKYS9zZ37lw3iHoOJZMv3WAFuzIXZ0yott2CRvnd
wxSaU6IuoKFEDkjEnhhrivNzjHdOmkiOBfqlPqAe5ciAnBssuDzH4u0d8kUmQk6EwuTT7535Jh8PPzlpNuh9
9u+s5GLdP4SfC7hdBR/FE69/GOB0cG9vv/WWG2StXhCKe0r7YDdJqK1vn7a1Lx516bpQXVQWyH7iaX1eg
ADUY0af+ImpdbmyOXmUH0CVfBDGR2XfyXatY58aQQcIevg8CD2vq2l++Ytr5lCmG8eU0o5WxNIBTEo9
7UQUB/Eymc/hcyj2ZB7ZAO5IJ90TiYfyLuXrxEOIAbOnwyfUFFDkrmAtCwNNePZSita+VfJozwhOD0/C51PID
w604r635Y8So5B5Jqb8LyRjyYhHy2FwPMX1pCBMgKkgmCUR4G26hc5pz9IiymI7MvZIS2YE6Feekl13IL
MvkAqwm3rZUI+CFzfbqfoa4UdbOqq/kVvurPMu+vIQIFfAfimjyqjaKiNtaxff0fJecRqi7RVRkmH4A8EIp8TD
vmnjQmIJom/FCXMSVK0x4CQh7IpLcr0IBC1oSiY94i37lp+u8pZ8gJVN5oIG1icU1646rETUI84M9SPU5c
+62vnLiTZ5gROCICQP06FBCEVIwemStkVWWpIdoYoH3F5rEdQcRokw+QBCyTTTnEICTRPJMPnUj9pSFzj
5CM4LgXC3y9tHulevXu5YbX12+fKORTBQ3LICA+HC7XOTpYn94XPPPedejvUf7DbEHqrSuln5pdo/sJgTnKB

kTqin/+6Udd/6P5JH+UGdhGpXbGUd62/inp/y91bV/abkUQJYGoIIgqCzh9IxCz+ADHj8IA5/YkSZD8mC0g
ImHQqDvRakYItDOQFZ4HyQSGvvdBpnCU4Gy2FrS0PUAAr8YSP5vjpH1fPHknWHwS4knms50UofuI58Bdd
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90SBOiTpQ0q7IOneo7dXU2NYF7aH8upob4IR9aKFnrrFiSDUJOyBEIMVoJfrjgTAaDRmHOGgo6nCMxpKmg
3SUsQhnraF45Wjx4sXugnWB2JIItBQyYJIE8GZhrDqAwfUXBzbb+fyP/wsqJP7JK1KRCWHHFNP+FxLITKQ
M64rFHxkm4MFD+0AONBpkom/kGpkgTRIWizyFMgPVT04aCmZyYjrlhC3Bbe6D1QYwMP4eihcq+eFJ7s9/
sJvZHiqBeu2hLudxD1VpnmQeqi7kcw+I+fOB8GP2CSyIig8fPlxDfEBdZfFkgijMMUBJqJ72UchCFHnVnuvJiV
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C9rDQXzt2zZ4n7MBPb7e6jm/qZEGAYB75RgD8U9cI8MKKsaZh/3IG+nhHtTojJ/bvPPqOC9fn5jkSjOyWYf
FMCp8SVHmNrLYBYED64b8p5PqRj5o9FHxlla8I2RSTzGqQUAd5oB9i2sp5geLgnKODRKyaOCjImID88CQ
qkHf5/FePckIjm3yAIfAJIQ80lckXnuh0aA1Oibqgh7AQg5dg5bkLg76wsuSwYPzUv5OP4JhAHfZiEEx5PrI2+
XBG4EqeNm2azZgxw7761a/mTqYmQnhQWjKCKU6mCgf+/EnIFRB8iAEJQC9QT3f5BOJyONBrkA9aTPKf
bhZBg2z0lDgtddcc+qTF2RbssnncNucZKI2WNkYqIZySuTb5Gv2Tok8vhyL6ErwUwE5xNyjHkoA8w2NhdK
WbofrPPHKWIIc6h9ScSythNZzXyv0rkXiiVdsn3BMhH9TIic0gcnn4BGKjxOwKPA2SEt8sMuU1iVklPlr6g93w
fUIY7aGA9k/MHfsnNFWqxZF6vhfQpwZ5BPJ4nsVrRvQTpn/e3ObYli3tTYla8AgFgXitik+CtrgHu8xmZlxYaC
17qLbgC5hnPINCPIkRZioRQe/ACQhhMkkiFD0EyXveSEU35TIA89f+tKXnKbKCCQeeCdi5I3nQiBj9v5OJ/CB
TQIVZqV2sysualhUam1DtigOTL/RybCaIhSmmIgrZX5RhtbB0ydCYdJRI0Uy7O2jHoF6gvoXOGZPhcbjT+f
DpMwLoXCf8+3YqVOnOkLxd/vZ7qGaCvzAfBhMgtR6KjMhFTIIVFOjsQkVhbBQRkGE8okjQmlvI0ikiXmmq
DfGqcfeh7mEUJiHfjs0HhrNJ1QY9EnQb6M3CKFaG9hD8dfIDHz9/8AwgUz3UE2Nxt5DZyUeyiJrwRbeygd
6EgFERhLvWDLJiB1JX3D9AfzP9c5z44D33qfGOCVcn+CcmVAisXvXEGhrKf7BbH8QaKr+IMvkQXQJEGBw
+nHAHBEAZucac8hVM9sS8IMu8kvYtD/qBaNJQIiUUTXQ+iiQGxDkBC5Axs8bnjGcbc1Lsd/+9rftu9/9bsO
+HJsUihj1hz9u4TEUGSASZSIOMVoJLQXR/PGnDQHChAF50HKQRl/aQDth+kFa2qH9YkKIAQPYkNAkxsgN
IobIIUAggvZzPkkT3ncBjIIMISGgHiSCMMSQiva8cYEWI2Yfhemn51oxoerACy+84P7m69VXX03m5BeshJg
KmB9hQYiRHikET44wSaRtGGdpFQhDvu8IFEhTRoBiZa0kQ6vhJkezqT4ajv5Unz12vIdKAR5Y88V5wCA+9
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yyMk5yaOfmFANhEycEmyAmZC6nt43NFq6U0IxAu7viSAEMVoGIkEM8moEPyCS6gB5++iHeYGIHLEEA
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wdXKYILsvEXOBGoFZRVsCpR0ClbZ6sSfIzRnVlCl9j7uW1rXIbJAHokxAj5+/HiXBjwvYnwZZXZHCARRaMu
8Ajx40mJ47khLE9UXMaHSYM6cOc6O/vrXv57MqY2o4dPq6IN64fzmQKiWDBEqDH+cGv9pJkgCwdA6HBP
YHxEzP2gijnNBTKhGhE8q0ppoVIVIFaN+kOIGRdgfY7QOgUURU07HmHtoJghEPWIIasJHu+hGhH+RAOIx
EQ21T6KP09ZtWqV+2HPlogwkYcVnUhTh8AYwXobXM5I3i9jDnQvipXxIRqAJDR4dAU4JnamjVrHLFaIkQ
WoDEMkwJtRJ72UaRZyPDSOZF4Fw9CyfTOFTGhmhhNRSaAcOmrEi0R/oLkE8nfW6GNfE+czGxiCERdjjEB
6YN0LogJlScwGUwOcsYhXfTS5CdT9qvRzrVOVTml6sv9UPQORRYmYn9vuoKfv/5DH6/6c6he4lajCj387k
/AsTSHkkOINJoJ4jFoiJy5oKYUhmCJoIJTQV/wsITxzGTTmCiellGu/3W9c5wmXqV+fWOQjsI/jDUP7aGgFN
B/oOX3c+keq+IK9r1DWE6+vYv0btUYkJKApthOucGHJBKOOaxiUXxF6+PIKhJEQJXSpBrKuNoBXZR1Qb8o
CfL/JEYcOGDe6vrSdOnGgjR450eX5d+IGfwO/XP3+6688UOleq/sLnBDomVnlU28ZCrKgaGJKIAEKuVVQhf
Kw8P590KjIhflwwipclUB+EiavrC1+jjqOEX8IOSovYtwt+meCf0w8qC0N53GtUeWMIJlQe4U9mWHjCguQ
jUyEI1+M4HASlo86ra8Pk4WffcEwAn1SEuq5Z8M8phK9Dx346k76BrhXQVoRXX35oDohNvjxDAsAEKxbq
mvTwNITbCqnyBfWTrg7lxDzchEj+mxrkI7jUYdVPd85c4F+Lj1Tni6rXUNeWDWIN1YDIZaL9tgiRQjpkck7V
wRnBH0/ycBdPmEC5iESI6tO/JoVsQN/htnXdA2V+m7rqNgViQuZYZQHJVNAyESKFVPCFLN15eUvg4MGD
7u+F9CfcPnSeVP2Er4d6aDV5JWWaZQL/etVfOjSH/VIUYkI1ALS6g+Y46QATD1LxK6i85xYFX9BTgXIRyK/
LMQ9PMYEW7ThXeKzUH3FUPzGhCgQSDI/AQPg4n5BQ1gf8Sg9/rpCqne4hFSIUxgIS9jqSByjPhFRR1+CPo
V9OOpq+08Ps/wMvoEii0PKIZAAAAABJRu5ErkJggg== </Image> </Tour> </Tours> </Visualization>

4 Security

4.1 Security Considerations for Implementers

None.

4.2 Index of Security Fields

None.

5 Appendix A: Full XML Schemas

For ease of implementation, the following sections provide the full **XML schemas** for this file format.

Schema name	Section
3-D Data Visualization Tour schema	5.1
Geo cache schema	5.2
Region polygon cache schema	5.3
Tour collection schema	5.4
Custom region schema	5.5
Custom map schema	5.6

5.1 <http://microsoft.data.visualization.engine.tours/1.0> Schema

```
<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://microsoft.data.visualization.engine.tours/1.0"
xmlns:tns="http://microsoft.data.visualization.engine.tours/1.0">
  <xsd:complexType name="CT_Camera">
    <xsd:sequence>
      <xsd:element name="Latitude" type="xsd:decimal"/>
      <xsd:element name="Longitude" type="xsd:decimal"/>
      <xsd:element name="Rotation" type="xsd:decimal"/>
      <xsd:element name="PivotAngle" type="xsd:decimal"/>
      <xsd:element name="Distance" type="xsd:decimal"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_Frame">
    <xsd:sequence>
      <xsd:element name="Camera" type="tns:CT_Camera"/>
      <xsd:element name="Image" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_Scene">
    <xsd:sequence>
      <xsd:element name="Transition" type="xsd:string"/>
      <xsd:element name="Effect" type="xsd:string"/>
      <xsd:element name="Theme" type="xsd:string"/>
      <xsd:element name="ThemeWithLabel" type="xsd:boolean"/>
      <xsd:element name="FlatModeEnabled" type="xsd:boolean"/>
      <xsd:element name="Duration" type="xsd:unsignedInt"/>
      <xsd:element name="TransitionDuration" type="xsd:unsignedInt"/>
      <xsd:element name="Speed" type="xsd:decimal"/>
      <xsd:element name="Frame" type="tns:CT_Frame"/>
      <xsd:element name="LayersContent" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_Scenes">
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" name="Scene" type="tns:CT_Scene"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_Tour">
    <xsd:sequence>
      <xsd:element name="Scenes" type="tns:CT_Scenes"/>
    </xsd:sequence>
  </xsd:complexType>
</xs:schema>
```



```

    </xsd:sequence>
    <xsd:attribute name="Name" type="xsd:string" use="required"/>
    <xsd:attribute name="Description" type="xsd:string" use="required"/>
  </xsd:complexType>
  <xsd:element name="Tour" type="tns:CT_Tour"/>
</xs:schema>

```

5.2 http://microsoft.data.visualization.Client.Excel.LState/1.0 Schema

```

<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://microsoft.data.visualization.Client.Excel.LState/1.0"
  xmlns:tns="http://microsoft.data.visualization.Client.Excel.LState/1.0">
  <xsd:complexType name="CT_VisualizationLState">
    <xsd:sequence>
      <xsd:element name="cg" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="VisualizationLState" type="tns:CT_VisualizationLState"/>
</xs:schema>

```

5.3 http://microsoft.data.visualization.Client.Excel.PState/1.0 Schema

```

<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://microsoft.data.visualization.Client.Excel.PState/1.0"
  xmlns:tns="http://microsoft.data.visualization.Client.Excel.PState/1.0">
  <xsd:complexType name="CT_VisualizationPState">
    <xsd:sequence>
      <xsd:element name="rp" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="VisualizationPState" type="tns:CT_VisualizationPState"/>
</xs:schema>

```

5.4 http://microsoft.data.visualization.Client.Excel/1.0 Schema

```

<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
  attributeFormDefault="unqualified" elementFormDefault="qualified"
  targetNamespace="http://microsoft.data.visualization.Client.Excel/1.0"
  xmlns:tns="http://microsoft.data.visualization.Client.Excel/1.0">
  <xsd:complexType name="CT_Tour">
    <xsd:sequence>
      <xsd:element name="Description" type="xsd:string"/>
      <xsd:element name="Image" type="xsd:string"/>
    </xsd:sequence>
    <xsd:attribute name="Name" type="xsd:string" use="required"/>
    <xsd:attribute name="Id" type="xsd:string" use="required"/>
    <xsd:attribute name="TourId" type="xsd:string" use="required"/>
    <xsd:attribute name="XmlVer" type="xsd:unsignedByte" use="required"/>
    <xsd:attribute name="MinXmlVer" type="xsd:unsignedByte" use="required"/>
  </xsd:complexType>
  <xsd:complexType name="CT_Tours">
    <xsd:sequence>
      <xsd:element maxOccurs="unbounded" name="Tour" type="tns:CT_Tour"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="CT_Visualization">
    <xsd:sequence>
      <xsd:element name="Tours" type="tns:CT_Tours"/>
    </xsd:sequence>
  </xsd:complexType>

```

```

    <xsd:element name="Colors"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:element name="Visualization" type="tns:CT_Visualization"/>
</xs:schema>

```

5.5 http://microsoft.data.visualization.Client.Excel.CustomRegionState/1.0 Schema

```

<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://microsoft.data.visualization.Client.Excel.CustomRegionState/1.0"
xmlns:tns="http://microsoft.data.visualization.Client.Excel.CustomRegionState/1.0">
  <xsd:complexType name="CT_CustomRegionState">
    <xsd:sequence>
      <xsd:element name="r1" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="CustomRegionState" type="tns:CT_CustomRegionState"/>
</xs:schema>

```

5.6 http://microsoft.data.visualization.Client.Excel.CustomMapList/1.0 Schema

```

<xs:schema xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema"
attributeFormDefault="unqualified" elementFormDefault="qualified"
targetNamespace="http://microsoft.data.visualization.Client.Excel.CustomMapList/1.0"
xmlns:tns="http://microsoft.data.visualization.Client.Excel.CustomMapList/1.0">
  <xsd:complexType name="CT_CustomMapList">
    <xsd:sequence>
      <xsd:element name="ml" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="CustomMapList" type="tns:CT_CustomMapList"/>
</xs:schema>

```

6 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 Office 2016
- Microsoft Office 2019

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.

7 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

Section	Description	Revision class
2.1.1 CT_Camera	Updated reference XMLSCHEMA2 to the latest version.	Minor
6 Appendix B: Product Behavior	Updated list of supported products.	major

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