

[MS-3DMDTP]: Data Visualization: 3-D Map Data Tour File Format

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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 and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. All other sections and examples in this specification are informative.

1.1 Glossary

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

XML

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

animation
data point
theme
ToolTip
workbook

The following terms are specific to this document:

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

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.

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.

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

1.2 References

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

1.2.1 Normative References

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

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

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

1.2.2 Informative References

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

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

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** ([\[XMLSCHEMA2\]](#) section 3.2.3) element that specifies the latitude of the camera target in degrees.

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

Rotation: An **xs:decimal** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) 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 ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.2 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** ([\[XMLSCHEMA2\]](#) section 3.2.1) element that specifies the image for the frame.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.3 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** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) section 3.2.2) element that specifies whether a theme with labels enabled has been applied to this scene.

FlatModeEnabled: An **xs:boolean** ([\[XMLSCHEMA2\]](#) 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** ([\[XMLSCHEMA2\]](#) section 3.3.22) element that specifies the scene duration in 100-nanosecond units.

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

Speed: An **xs:decimal** ([\[XMLSCHEMA2\]](#) 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 [2.1.2](#)) element that specifies the first frame of this scene in the Power Map tour.

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

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.4 CT_Scenes

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

Referenced by: [CT_Tour](#)

Specifies the collection of scenes in the Power Map tour. There is always at least one scene per tour.

Child Elements:

Scene: A **CT_Scene** (section [2.1.3](#)) element that specifies a scene in a Power Map tour.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.5 CT_Tour

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

Referenced by: [Tour](#)

Specifies a Power Map tour.

Child Elements:

Scenes: A **CT_Scenes** (section [2.1.4](#)) element that specifies a collection of scenes within the tour.

Attributes:

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

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

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.6 CT_Tour

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

Referenced by: [CT_Tours](#)

Specifies a tour comprised of one or more scenes in Power Map.

Child Elements:

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

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

Attributes:

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

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

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

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

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

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.7 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 [2.1.6](#)) element that specifies a tour.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.8 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 [2.1.7](#)) element that specifies the collection of tours stored in the workbook.

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

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.9 CT_VisualizationLState

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

Referenced by: [VisualizationLState](#)

Specifies a container for geocoded **data points (1)** within Power Map.

Child Elements:

cg: An **xs:string** ([\[XMLSCHEMA2\]](#) section 3.2.1) element that specifies the geocoded data points (1).

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.1.10 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** ([\[XMLSCHEMA2\]](#) section 3.2.1) element that specifies the region polygons.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.2 Elements

2.2.1 Tour

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

A **CT_Tour** (section [2.1.5](#)) element that specifies a tour in Power Map.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.2 Visualization

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

A **CT_Visualization** (section [2.1.8](#)) element that specifies the 3-D visualizations stored in the workbook.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.3 VisualizationLState

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

A **CT_VisualizationLState** (section [2.1.9](#)) element that specifies a container for geocoded data points (1).

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) section 2.1).

2.2.4 VisualizationPState

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

A **CT_VisualizationPState** (section [2.1.10](#)) element that specifies a container for data used for region mappings.

The following W3C XML Schema ([\[XMLSCHEMA1\]](#) 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 ([\[XMLSCHEMA1\]](#) 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</Tran
sition><Effect>Station</Effect><Theme>White</Theme><ThemeWithLabel>>false</ThemeWithLa
bel><FlatModeEnabled>>false</FlatModeEnabled><Duration>60000000</Duration><TransitionDur
ation>30000000</TransitionDuration><Speed>0.5</Speed><Frame><Camera><Latitude>40.96
8825575557013</Latitude><Longitude>-
111.36067867162427</Longitude><Rotation>0</Rotation><PivotAngle>-
0.19670261929383437</PivotAngle><Distance>0.6</Distance></Camera><Image>iVBORw0KGg
oAAAANSUHEUgAAANQAAAB1CAYAAAA2ns9TAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAA
AJcEhZcwAAAYQAAAMkAbQeFOYAAAC2qSURBVHhe7Z0JkB3Fmec/dUtqSS217vs+ASEhDgmEQQbWCO
xQLDZ4DBh7Gdu7sTHrITbCE7MzOzETs/asd7wHjvEugwfbM8Y7AgwIkDklhGUd6Ba671tC9y1araNbUrP
1y/f+reyiXr/X770+X/0hIVI5VVXm98/vy6+qX7X5LIC1Ely7ds0qKyuNW2rXrp21bdvWioqK3PHly5etvLzc
Hbdp08bFIAOOFaqrq+3SpUuufYcOHVye6gich0C/5Kufq1evunRxcbE7joKGWzHXkQIUH1y4cME6d+5cK
8+/vLRQfepjyF51btmyxc6cOWNTpkxJ5sRIB2TgypUrbs5rZCKY5Ouz0sJx8eJf6qqc0To1q1bDSG46fPnz
zuBBwxESUmJGwQRTOAYUgHyw4Eyhoy+IKYfYgJEFemoHwZ11I7y8PI9qE4Y3EuXLI1qzkmdVOCCKIN9
zhkmViz6A1IjbJGn9u3bu3HNbHIsIZBgI5WV1dIu586dqyEUGkw3T7kvdAoImoTODZJXI1h5aku/BI4J0I4
KEMgnqd83x6kQLIN/gvqK6oM8BaB2fl6M3Kc5ZS5ZxEm3KkIhyFp1faFBa5SWIjozCdKxskAyCTntAMIJG
CjS5EMUYUqGhbNjx46unvoRsagnQfeDTzAXqZQGYf8HABX5Nfxr4P8dO1jpAdjTEDmiNiStCqTDxw5cs
SZQwQfCDLaCbOQASCZAg+xyIj5NNAUZ98hFDE4Vhp5ase7dUHYGglwBLmfID9IPeHpk3Vp6Y1qpwy
FhX6mLtknV26kqg7uHeZTRw3yqXDoD7ni3EdmnOAFCTrY5QaB5pIh8IREVFhdtPMRCQjVsnjaAwMBJ6
yEI9yjEfmXu4ZhwI3bt3ryEOqA9hRf4Hpz9re6sHu7xpQ8rt2f/ytL333nVUAcPHnSmzJgxY9yYfO1rX3P1
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/vSn7IHAN77xjRoXf8Z7KcfJnzWhhuKepCfTtoyE0FOIYDGB36YB4yhV8XGWTutBiSfIRPGoV5ROgRfi2Mm
G0+ocKgf99FTQD90NjYIGRjGIRdIppqDffN1xjMk/tyBB68ld0cCQW41VS363t8VM+fvmwnPSYU11U
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RI0Uy7O2jHoF6gvoXOGZPhcbjT+fDpMwLoXCF8+3YqVOnOkLxd/vZ7qGaCvzAfBhMgtR6KjMhFTIIVFOjs
QkVhbBQRkGE8okjQmlvI0ikiXmmqDfGqcfeh7mEUJiHfjs0HhrNJ1QY9EnQb6M3CKFaG9hD8dfIDH9/8
AwgUz3UE2Nxt5DZytUeyjIrwRbeygdo6EgFERhLvWDLjIB1JX3D9AfZp9c5z44D33qfFGOCVcn+CcmVAi
sXvxEGhrKf7BbH8QaKr+IMvkQXQJEGBw+nHAHBEAzUcac8hVM9sS8IMu8kvYtD/qBaNJQIiUQTXX+iIq
GxDkBC5Axs8bnjGcbc1Lsd/+9rftu9/9bsO+HJsUihj1hz9u4TEUGSASZSIOMVoJLQXR/PgNdQhChAF5
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Yfhemn51oxoerACy+84P7m69VXX03m5BeshJgKmb9hQYIRHiKET44wSaRtGGdpFqhDvu8IFehTRoBIz
A0kQ6vhJkeqzT4ajv5Unz12vIdKAR5Y88V5wCA+9thEjXdkMKMFMBPGytcUaMIOCYmuL8IIue+UwMJgf
HEIMNZoFuoz3tIqHEMMATEIHDPfzBF7LgBPKEMeSEMyyMk5yaOfmFANhEycEmyAmZC6nt43NFq6U0Ix
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A7QMgi/nhLQJdSaA5CGmvk80PIB+fUijMoDWgqSUi0wgJlQaMOANJfThyYiRPUSkcFrEQvgx1xQzp9oXA
Y4pkwkHodBKaCnSueBxStiyiE2+NOALi0zAE0884dQ8D30zwdXKYILSvEXOBGoFZRVsCpR0CibZ6sSfIz
RnVLcL9j7uW1rXIbJAHokxAj5+/HiXBjwvYnwZZxZHCARRaMu8Ajx40mJ47kLE9UXMaHSYM6cOc6O/v
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CdT9qvRzrVOVTml6sv9UPQORRYmYn9vuoKfv/5DH6/6c6he4IajCj387k/AsTSHkkOINJoJ4jFoiJy5oKYU
HmCJoIJTQV/wsITxzGTTmCiiellgu/3W9c5wmXqV+fW0QjsI/jDUP7aGgFNB/oOX3c+keq+IK9r1DWE6
+vYv0btUYkKApthOucGHJBKOoAxiUXxF6+PIKhJEQJXSpBrKuNoBXZR1Qb8oCfl/JEYcOGDe6vrSdOnG
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eVP2Er4d6aDV5JWWaZQL/etVfOjSH/VIUYkI1ALS6g+Y46QATD1LxK6i85xYFX9BTgXIRyK/LMQ9PMY
E77ThXeKzUH3FUPzGhCgQSDI/AQPg4n5BQ1gf8Sg9/rpCqne4hFSIUxgIS9jqSBYjPhFRR1+CPoV9OQp
+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

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:element name="Colors"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:element name="Visualization" type="tns:CT_Visualization"/>
</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 released service packs:

- Windows 7 operating system
- Windows Server 2008 R2 operating system
- Windows Server 2012 operating system
- Microsoft .NET Framework 4.5
- Windows 8 operating system
- Windows 8.1
- Microsoft Office 365 ProPlus

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

7 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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