

[MS-VGSP]: Visio Graphics Service Protocol

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Revision Summary

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1 Introduction

The Visio Graphics Service Protocol enables a protocol client to communicate with a protocol server to retrieve information about a [web drawing](#) that is stored in a document repository.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

- Coordinated Universal Time (UTC)**
- domain**
- GUID**
- Hypertext Transfer Protocol (HTTP)**
- Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**
- SOAP**
- SOAP action**
- SOAP body**
- SOAP fault**
- Transmission Control Protocol (TCP)**
- XML namespace**

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

- data connection**
- data provider**
- data source**
- drawing**
- embedded object**
- endpoint**
- Extensible Application Markup Language (XAML)**
- font**
- fully qualified class name**
- hyperlink**
- JavaScript Object Notation (JSON)**
- list**
- Office data connection (ODC) file**
- pixel**
- Portable Network Graphics (PNG)**
- primary key**
- row**
- Status-Code**
- Uniform Resource Identifier (URI)**
- Uniform Resource Locator (URL)**
- view**
- Web Services Description Language (WSDL)**
- WSDL message**
- WSDL operation**
- XML namespace prefix**
- XML schema**
- zoom level**

The following terms are specific to this document:

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

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the 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.

[MS-DSDIFFGRAM] Microsoft Corporation, "[SharePoint Web Services: DataSet DiffGram Structure Specification](#)".

[MS-SLXV] Microsoft Corporation, "Silverlight XAML Vocabulary Specification 2008", October 2008, [http://msdn.microsoft.com/en-us/library/dd361850\(v=PROT.10\).aspx](http://msdn.microsoft.com/en-us/library/dd361850(v=PROT.10).aspx)

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol](#)".

[MS-VGSFF] Microsoft Corporation, "[Visio Graphics Service File Format \(.vdw\) Specification](#)".

[MS-VSDX] Microsoft Corporation, "[Visio Graphics Service VSDX File Format](#)".

[MS-WSSTS] Microsoft Corporation, "[Windows SharePoint Services](#)".

[RFC1738] Berners-Lee, T., Masinter, L., and McCahill, M., "Uniform Resource Locators (URL)", RFC 1738, December 1994, <http://www.ietf.org/rfc/rfc1738.txt>

[RFC1980] Seidman, J., "A Proposed Extension to HTML : Client-Side Image Maps", RFC 1980, August 1996, <http://www.rfc-editor.org/rfc/rfc1980.txt>

[RFC2083] Boutell, T., "PNG (Portable Network Graphics) Specification Version 1.0", RFC 2083, March 1997, <http://www.ietf.org/rfc/rfc2083.txt>

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

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

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

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

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

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

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

[XMLSCHEMA1] Thompson, H.S., Beech, D., Maloney, M., 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](#)".

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol](#)".

[RFC1952] Deutsch, P., "GZIP file format specification version 4.3", RFC 1952, May 1996, <http://www.rfc-editor.org/rfc/rfc1952.txt>

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

[RFC3629] Yergeau, F., "UTF-8, A Transformation Format of ISO 10646", STD 63, RFC 3629, November 2003, <http://www.ietf.org/rfc/rfc3629.txt>

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

1.3 Overview

The protocol enables a protocol client to request and receive a drawing page (section [1.3.2](#)) of a [web drawing](#) from the protocol server in either raster or vector format. The supported raster format is the **Portable Network Graphics (PNG)** format, as described in [\[RFC2083\]](#). The supported vector format is **Extensible Application Markup Language (XAML)**, as described in [\[MS-SLXV\]](#).

Additionally, the protocol enables a protocol client to add, edit, or delete [comments](#) associated with a drawing page or its [shapes](#).

A typical scenario for using this protocol is an application that retrieves and displays web drawings, and collects collaborative content feedback in comments. Typically a web drawing is contained in a file stored in a document repository.

1.3.1 Web Drawing

A **web drawing** is a collection of drawings page (section [1.3.2](#)), [shapes](#), resources, [comments](#), and information that can be rendered as a **drawing** in a web browser. Based on the format of the file that contains the web drawing, the protocol makes the distinction between the following types of web drawings.

Type	Description
VGSFF	A web drawing contained in a file that conforms to the format specified in [MS-VGSFF] section 2.2.1
VSDX	A web drawing contained in a file that conforms to the format specified in [MS-VSDX] section 2.2.1

1.3.2 Drawing Page

A **drawing page** is a collection of shapes (section [1.3.3](#)) that are viewed together.

Drawing pages of **VGSFF** web drawings (section [1.3.1](#)) are specified in [\[MS-VGSFF\]](#) section 2.2.2.

Drawing pages of **VSDX** web drawings are specified in [\[MS-VSDX\]](#) section 2.2.2.

1.3.2.1 Foreground Page

Foreground pages of **VSDX** [web drawings](#) are specified in [\[MS-VSDX\]](#) section 2.2.2.4.

1.3.3 Shape

A **shape** is a collection of geometry, formatting, text, images, hyperlinks, and shape data in a drawing page (section [1.3.2](#)).

Shapes contained in **VGSFF** [web drawings](#) are specified in [\[MS-VGSFF\]](#) section 2.2.3.

Shapes contained in **VSDX** web drawings are specified in [\[MS-VSDX\]](#) section 2.2.3.

1.3.4 Shape Data

A shape (section [1.3.3](#)) can have data associated with it that provides information about its meaning. Shape data (section [1.3.4](#)) can come from information stored in the file refreshed from **data providers** or from recalculations of an evaluated formula. The shape data is also formatted for display.

Shape data items contained in **VGSFF** [web drawings](#) (section [1.3.1](#)) are specified in [\[MS-VGSFF\]](#) section 2.2.3.5

Shape data items contained in **VSDX** web drawings are specified in [\[MS-VSDX\]](#) section 2.2.3.6.

1.3.5 Comment

A **comment** is a plain text annotation in a [web drawing](#). Each comment specifies an author, and a relationship with a drawing page (section [1.3.2](#)) or a specific [shape](#) on the drawing page.

Comments contained in **VSDX** web drawings are specified in [\[MS-VSDX\]](#) section 2.2.9.

Comments are not contained in **VGSFF** web drawings.

1.4 Relationship to Other Protocols

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

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

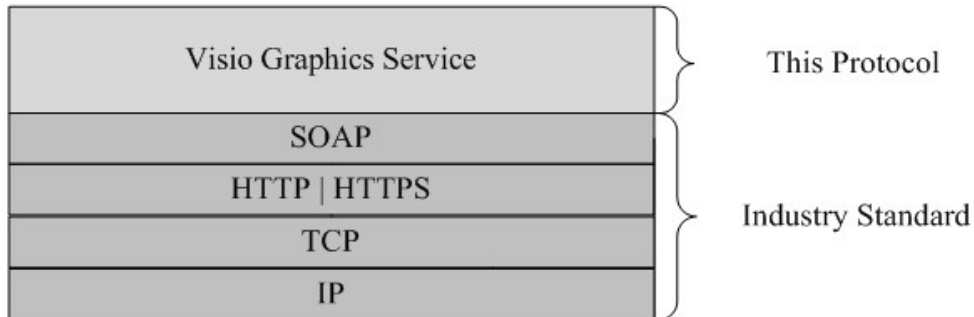


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#).

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

1.6 Applicability Statement

This protocol is designed to support retrieval of [web drawings](#), and collecting collaborative content feedback in [comments](#).

1.7 Versioning and Capability Negotiation

This specification covers versioning issues in the following areas:

- **Supported Transports:** This protocol can be implemented by using transports that support sending Simple Object Access Protocol (SOAP) messages, as specified in section 2.1.
- **Protocol Versions:** This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

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

2.1 Transport

Protocol servers **MUST** support Simple Object Access Protocol (SOAP) over Hypertext Transfer Protocol (HTTP), Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), or **TCP**.

All protocol messages **MUST** be transported by using HTTP or TCP bindings at the transport level.

Protocol messages **MUST** be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Protocol server faults **MUST** be returned by using HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

If the HTTPS transport is used, a server certificate **MUST** be deployed.

This protocol **MAY** transmit an additional SOAP header, the **ServiceContext** header, as specified in [\[MS-SPSTWS\]](#).

This protocol does not define any means for activating a protocol server or protocol client. The protocol server **MUST** be configured and begin listening in an implementation-specific way. In addition, the protocol client **MUST** know the format and transport that is used by the server, for example, the SOAP format over an HTTP transport.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and WSDL, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
q1	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer	
tns1	http://schemas.microsoft.com/2003/10/Serialization/	

Prefix	Namespace URI	Reference
tns2	http://tempuri.org/	
tns3	http://tempuri.org/Imports	
wsaw	http://www.w3.org/2006/05/addressing/wsd	
wSDL	http://schemas.xmlsoap.org/wsd/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] ↓ [XMLSCHEMA2] ↓

2.2.2 Messages

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

2.2.3 Elements

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

Element	Description
VisioGraphicsServiceFault	The VisioGraphicsServiceFault element, with complex type VisioGraphicsServiceFault (section 2.2.4.5), contains information about errors that occur during protocol server operations.

2.2.3.1 VisioGraphicsServiceFault

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **VisioGraphicsServiceFault** element, with complex type **VisioGraphicsServiceFault** (section [2.2.4.5](#)), contains information about errors that occur during protocol server operations.

```
<xs:element name="VisioGraphicsServiceFault" nillable="true"
type="tns:VisioGraphicsServiceFault" xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

2.2.4 Complex Types

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

Complex type	Description
AddonDataSource	The AddonDataSource complex type contains information about a data provider implemented by a protocol client and used in a web drawing .

Complex type	Description
ArrayOfAddonDataSource	The ArrayOfAddonDataSource complex type contains an array of AddonDataSource elements (section 2.2.4.1).
BaseRequestContract	The BaseRequestContract complex type contains information used to specify the request parameters for a protocol server operation to retrieve a VGSFF web drawing.
DiagramBase	The DiagramBase complex type contains information used to specify response data for a protocol server operation to retrieve a VGSFF web drawing.
VisioGraphicsServiceFault	The VisioGraphicsServiceFault complex type contains information about errors that occur during protocol server operations.

2.2.4.1 AddonDataSource

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **AddonDataSource** complex type contains information about a data provider implemented by a protocol client and used in a [web drawing](#).

```
<xs:complexType name="AddonDataSource" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="ConnectionString" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Data" nillable="true">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="xs:schema"/>
          <xs:any/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="QueryString" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

ConnectionString: A string that specifies arguments that define the location of the data provider and how to connect to it. There **MUST** be exactly one instance of this element, and it **MUST NOT** be null. It **MUST** contain the **fully qualified class name** of the data provider.

Data: Specifies the data retrieved from the data provider. It **MUST** be encoded in the DiffGram [\[MS-DSDIFFGRAM\]](#) format, and it **MUST NOT** be null.

xs:schema: Specifies the schema for the **Data** element.

Id: An integer that specifies the identifier of this **AddonDataSource**. It **MUST** be greater than or equal to zero, and it **MUST** be unique across all the **AddonDataSource** elements in the containing **ArrayOfAddonDataSource** array (section [2.2.4.2](#)). There **MUST** be exactly one instance of this element.

QueryString: A string that specifies information used to call and retrieve data from the data provider. There **MUST** be exactly one instance of this element, and it **MUST NOT** be null.

2.2.4.2 ArrayOfAddonDataSource

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **ArrayOfAddonDataSource** complex type contains an array of **AddonDataSource** elements (section [2.2.4.1](#)).

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

AddonDataSource: Specifies an **AddonDataSource** element. This element MUST NOT be null.

2.2.4.3 BaseRequestContract

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **BaseRequestContract** complex type contains information used to specify the request parameters for a protocol server operation to retrieve a **VGSFF web drawing**.

```
<xs:complexType name="BaseRequestContract" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
      type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="DisableRefresh" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FileUri" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="PageNumber" type="xs:int"/>
    <xs:element minOccurs="0" name="TimeLastModified" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

DataSources: An **ArrayOfAddonDataSource** element (section [2.2.4.2](#)) that specifies the data providers implemented by a protocol client, and used in the web drawing. If there are no data providers, **DataSources** MUST have zero child elements. If **DataSources** has child elements, the **Data** field of each **AddonDataSource** element (section [2.2.4.1](#)) MUST NOT be null.

DisableRefresh: A Boolean that specifies whether the requested drawing page (section [1.3.2](#)) is refreshed by the protocol server. A value of "true" indicates that the returned drawing page is not refreshed; a value of "false" indicates that the returned drawing page is refreshed. There MUST be exactly one instance of this element.

FileUri: An **anyURI** element that specifies the **URL** of the file in a document repository that contains the **VGSFF** web drawing being requested. There MUST be exactly one instance of this element, and it MUST NOT be null.

PageNumber: An integer that specifies the one-based index of a drawing page in the web drawing. It MUST be greater than zero and less than or equal to the total number of drawing pages (section [1.3.2](#)) in the requested web drawing. There MUST be exactly one instance of this element.

TimeLastModified: An optional **dateTime** element that specifies the date and time, in **Coordinated Universal Time (UTC)** format, when the file in a document repository that contains the **VGSFF** web drawing, was last modified. If the attribute is present, there **MUST** be exactly one instance of this element.

2.2.4.4 DiagramBase

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **DiagramBase** complex type contains information used to specify response data for a protocol server operation to retrieve a **VGSFF** [web drawing](#).

```
<xs:complexType name="DiagramBase" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="CacheAge" type="xs:int"/>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
  </xs:sequence>
</xs:complexType>
```

CacheAge: An integer that specifies the duration in minutes for which the processed drawing page (section [1.3.2](#)) is cached in memory by the protocol server. It **MUST** be greater than or equal to zero. There **MUST** be exactly one instance of this element.

DataSources: An **ArrayOfAddonDataSource** element (section [2.2.4.2](#)) that specifies the data providers implemented by a protocol client, and used in the web drawing. If there are no data providers, **DataSources** **MUST** have zero child elements. If **DataSources** has child elements, the **Data** field of each **AddonDataSource** element (section [2.2.4.1](#)) **MUST NOT** be empty.

2.2.4.5 VisioGraphicsServiceFault

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **VisioGraphicsServiceFault** complex type contains information about errors that occur during protocol server operations.

```
<xs:complexType name="VisioGraphicsServiceFault" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Details" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Error" type="tns:FaultCode"/>
    <xs:element minOccurs="0" name="Flags" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

Details: A string that specifies a detailed description of an error. There **MUST** be exactly one instance of this element.

Error: A **FaultCode** simple type (section [2.2.5.1](#)) that specifies the type of error. There **MUST** be exactly one instance of this element.

Flags: An integer that specifies additional information related to the **FaultCode**. A nonzero value indicates an error occurred during mapping **rows (2)** of data to [shapes](#) when processing the request for a drawing page (section [1.3.2](#)) of a **VGSFF** [web drawing](#). There **MUST** be exactly one

instance of this element. If **FaultCode** is not equal to **DataBindingConflict**, the value MUST be "0x00000000". If **FaultCode** is equal to **DataBindingConflict**, then the value MUST be a bitwise OR combination of one or more of the values in the following table, or the value "0x40000000", which indicates a generic data binding failure.

Value	Description
0x00000001	A column was deleted in the data source (1) .
0x00000002	A column's data type was changed in the data source (1).
0x00000004	A row (2) was deleted in the data source (1).
0x00000008	A duplicate row (2) was found in the data source (1).
0x00000010	A primary key column was deleted in the data source (1).

2.2.5 Simple Types

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

Simple type	Description
FaultCode	The FaultCode simple type contains information about a specific error that occurs during a protocol operation. It MUST be a valid value as defined in the table in this section.

2.2.5.1 FaultCode

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **FaultCode** simple type contains information about a specific error that occurs during a protocol operation.

It MUST be a valid value as defined in the table in this section.

```
<xs:simpleType name="FaultCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DataConnectivityError"/>
    <xs:enumeration value="DataSourceConnectionError"/>
    <xs:enumeration value="DataSourcePermissionError"/>
    <xs:enumeration value="EmptyRasterDiagramRequest"/>
    <xs:enumeration value="EmptyVectorDiagramRequest"/>
    <xs:enumeration value="OfficeDataConnectionFileNotFound"/>
    <xs:enumeration value="OfficeDataConnectionFileRetrievalError"/>
    <xs:enumeration value="OfficeDataConnectionFileAccessDenied"/>
    <xs:enumeration value="IncompatibleDomain"/>
    <xs:enumeration value="WssViewAccessDenied"/>
    <xs:enumeration value="WssListAccessDenied"/>
    <xs:enumeration value="InvalidPageNumber"/>
    <xs:enumeration value="InvalidResolution"/>
    <xs:enumeration value="InvalidFileUrl"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="RasterizationError"/>
<xs:enumeration value="InvalidFileExtension"/>
<xs:enumeration value="EmptyServerData"/>
<xs:enumeration value="OpenServerFileFailed"/>
<xs:enumeration value="NoReadPermissionToFile"/>
<xs:enumeration value="KeyNotFoundFromCollection"/>
<xs:enumeration value="ExceededMaxDiagramSize"/>
<xs:enumeration value="IncompatibleVersion"/>
<xs:enumeration value="DataProviderNotTrusted"/>
<xs:enumeration value="DataBindingConflict"/>
<xs:enumeration value="UnableToGetExternalDataSourceCredentials"/>
<xs:enumeration value="UnattendedAccountTypeMismatch"/>
<xs:enumeration value="RecalcTimedOut"/>
<xs:enumeration value="LicenseExpired"/>
<xs:enumeration value="InvalidZoomLevel"/>
<xs:enumeration value="VSDXFileLoadGenericError"/>
<xs:enumeration value="VSDXFileLoadPermissionError"/>
<xs:enumeration value="VSDXFileSizeError"/>
<xs:enumeration value="WebPartConfigError"/>
<xs:enumeration value="EmptyRasterPageRequest"/>
<xs:enumeration value="EmptyRasterPageItemRequest"/>
<xs:enumeration value="VDWNotSupportExternalList"/>
<xs:enumeration value="ExternalListConfigurationNotSupported"/>
<xs:enumeration value="IncompatibleDomain_15"/>
<xs:enumeration value="FileNotLockedOnServer"/>
<xs:enumeration value="FileAlreadyCheckedOutOnServer"/>
<xs:enumeration value="FileAlreadyLockedOnServer"/>
<xs:enumeration value="DocumentCheckoutRequired"/>
<xs:enumeration value="ExcelFileNotInSharePoint"/>
<xs:enumeration value="PageDrawingAreaSizeUnsupported"/>
<xs:enumeration value="PageImageSizeUnsupported"/>
<xs:enumeration value="PageFailToRaster"/>
<xs:enumeration value="CannotRetrieveExternalListData"/>
</xs:restriction>
</xs:simpleType>

```

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

Value	Meaning
DataConnectivityError	An error occurred while trying to connect to data sources (1) specified in the document.
DataSourceConnectionError	An error occurred while trying to connect to data sources (1) specified in the VSDX Web drawing (section 1.3.1).
DataSourcePermissionError	The user does not have permission to connect to data sources (1) specified in the VSDX Web drawing .
EmptyRasterDiagramRequest	A required argument to the GetRasterDiagram (section 3.1.4.2) WSDL operation is empty.
EmptyVectorDiagramRequest	A required argument to the GetVectorDiagram WSDL operation is empty.
OfficeDataConnectionFileNotFound	The Office data connection (ODC) file specified in the document could not be found.

Value	Meaning
OfficeDataConnectionFileRetrievalError	The Office data connection (ODC) file URL specified in the document is not a well formed URL as specified in [RFC1738] .
OfficeDataConnectionFileAccessDenied	Access to the Office data connection (ODC) file specified in the document was denied.
IncompatibleDomain	The specified VGSFF Web drawing is referring to a list (1) data source (1) that is not in a compatible domain .
WssViewAccessDenied	The user does not have permissions to the view used as external data source (1) by the web drawing.
WssListAccessDenied	The user does not have permissions to the list (1) used as external data source (1) by the web drawing.
InvalidPageNumber	The page index is less than one.
InvalidResolution	The Resolution specified in RasterDiagramRequestContract (section 3.1.4.1.3.1) is invalid.
InvalidFileUrl	Unused and MUST be ignored.
RasterizationError	An error occurred during rasterization of the document.
InvalidFileExtension	The file reference does not refer to a file with a valid extension.
EmptyServerData	The data in the document is empty or invalid.
OpenServerFileFailed	The document could not be opened.
NoReadPermissionToFile	Access to the document was denied.
KeyNotFoundFromCollection	The names of drawing pages (section 1.3.2) cannot be retrieved from the document.
ExceededMaxDiagramSize	The document size exceeded the limit configured by the service administrator.
IncompatibleVersion	The document version is incompatible with the server.
DataProviderNotTrusted	The document requires a connection to data provider(s) that are not allowed by the service administrator.
DataBindingConflict	Unable to update the graphical elements that are mapped to data while processing a request for a drawing page (section 1.3.2) of a VGSFF Web drawing .
UnableToGetExternalDataSourceCredentials	Credentials required to connect to data sources (1) specified in the document could not be retrieved.
UnattendedAccountTypeMismatch	The default credentials used for connecting to data sources (1) are of invalid type.
RecalcTimedOut	The document recalculation duration exceeded the limit configured by the service administrator.

Value	Meaning
LicenseExpired	Visio Graphics Service license has expired.
InvalidZoomLevel	Unused and MUST be ignored.
VSDXFileLoadGenericError	An error occurred opening the VSDX Web drawing .
VSDXFileLoadPermissionError	The user does not have permission to read the VSDX Web drawing .
VSDXFileSizeError	The VSDX document size exceeded the limit configured by the service administrator.
WebPartConfigError	An invalid request occurred for a VSDX Web drawing .
EmptyRasterPageRequest	The rasterPageRequestContract element of the GetRasterPage element (section 3.1.4.3.2.1) is null.
EmptyRasterPageItemRequest	The rasterPageItemRequestContract element of the GetRasterPageItem element (section 3.1.4.4.2.1) is null.
VDWNotSupportExternalList	A VGSFF Web drawing does not support an external list ([MS-WSSTS] section 2.1.2.7) data source (1).
ExternalListConfigurationNotSupported	The configuration of an external list ([MS-WSSTS] section 2.1.2.7) data source (1) is not supported.
IncompatibleDomain_15	The specified VSDX web drawing (section 1.3.1) is referring to a list ([MS-WSSTS] section 2.1.2.7) data source (1) that is not in a compatible domain.
FileNotLockedOnServer	The SaveComments operation (section 3.1.4.5) failed to acquire a lock on the target document.
FileAlreadyCheckedOutOnServer	The SaveComments operation (section 3.1.4.5) failed to acquire a lock on the target document because it was checked-out ([MS-WSSTS] section 2.1.2.11.1.3) by a different client.
FileAlreadyLockedOnServer	The SaveComments operation (section 3.1.4.5) failed because there is an already existing exclusive lock on the target document or a schema lock with a different schema lock identifier.
DocumentCheckoutRequired	The SaveComments operation (section 3.1.4.5) failed because the target document was not checked-out ([MS-WSSTS] section 2.1.2.11.1.3).
ExcelFileNotInSharePoint	An Excel file used as data source (1) is not located in a document library ([MS-WSSTS] section 2.1.2.7.1)
PageDrawingAreaSizeUnsupported	The protocol server was unable to render the drawing page because it exceeds the supported size limit.
PageImageSizeUnsupported	The protocol server was unable to create an image item (section 3.1.1) because the image exceeds the supported size limit.
PageFailToRaster	An error has occurred while the protocol server was rendering the VSDX Web drawing .

Value	Meaning
CannotRetrieveExternalListData	The protocol server failed to retrieve data from an external list ([MS-WSSTS] section 2.1.2.7) data source (1).

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

2.2.9 Common Data Structures

The following table summarizes the set of data structures specific to messages that are associated with **VSDX** web drawings.

Data Structure	Description
ShapeInfo	A string that is an XML fragment containing information about shapes , drawing pages (section 1.3.2), and web drawing .
Comments	A string that is an XML fragment containing comments.
CommentData	A string that is an XML fragment containing the comment action input data.
CommentResult	A string that is an XML fragment containing the result of a comment action.

2.2.9.1 ShapeInfo

The **ShapeInfo** element is a string that specifies information about the shapes (section [1.3.3](#)), drawing pages (section [1.3.2](#)), and web drawing (section [1.3.1](#)) of a **VSDX** web drawing. **<1>** The syntax of this data structure is an XML fragment. Elements of this fragment are listed in the following sections.

The set of elements returned is determined by the contents of the **web drawing**, as described in the following table.

Element	Description
Page	The information about the requested drawing page, and the information about additional pages in the web drawing.
Pages	A list of published foreground pages (section 1.3.2.1) in the web drawing.
PageInfo	The information about the identity of a drawing page in the web drawing.
ShapeInfo	The information about the relevant shape, including shape data (section 1.3.4), hyperlinks, text and identifying information. A relevant shape is selectable, as specified in [MS-VSDX] section 2.2.3.4, and contains hyperlinks, shape data items, or

Element	Description
	comments (section 1.3.5).
Hyperlinks	The list of each visible hyperlink element associated with a shape.
Hyperlink	The hyperlink associated with a shape.
ShapeDataItems	The list of visible shape data items associated with a shape.
ShapeData	The shape data item associated with a shape.
Shapes	The list of geometric outline information for each relevant shape in the web drawing. A relevant shape is selectable, as specified in [MS-VSDX] section 2.2.3.4, and contains hyperlinks, shape data items, or comments.
Shape	The geometric outline information for a shape.
Path	The geometric outline information in the form of a path.

2.2.9.1.1 Page

The **Page** complex type specifies information about the shapes (section [1.3.3](#)) on a drawing page (section [1.3.2](#)) in a web drawing (section [1.3.1](#)). One element is returned for the web drawing.

```
<xs:complexType name="Page" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Pages" minOccurs="1" maxOccurs="1" type="Pages"/>
    <xs:element name="ShapeInfo" minOccurs="0" maxOccurs="unbounded" type="ShapeInfo"/>
    <xs:element name="Shapes" minOccurs="0" maxOccurs="1" type="Shapes"/>
  </xs:sequence>
  <xs:attribute name="ContentBounds" type="xs:string" use="required"/>
  <xs:attribute name="DataBindingConflict" type="xs:boolean" use="required"/>
  <xs:attribute name="DocumentID" type="xs:string" use="required"/>
  <xs:attribute name="DocumentTimestamp" type="xs:string" use="required"/>
  <xs:attribute name="Name" type="xs:string" use="optional"/>
  <xs:attribute name="ReadOnly" type="xs:boolean" use="required"/>
  <xs:attribute name="RefreshWarning" type="xs:boolean" use="required"/>
  <xs:attribute name="RequiresCheckout" type="xs:boolean" use="optional"/>
  <xs:attribute name="UnsupportedFeatures" type="xs:int" use="optional"/>
  <xs:attribute name="ViewOnly" type="xs:boolean" use="required"/>
</xs:complexType>
```

ContentBounds: A string that specifies the bounding rectangle of the drawing page as specified in the following table.

Name	Description
x	An integer that specifies the upper left x-coordinate of the bounding rectangle.
y	An integer that specifies the upper left y-coordinate of the bounding rectangle.
width	A positive integer that specifies the width of the bounding rectangle.
height	A positive integer that specifies the height of the bounding rectangle.

The coordinates of a bounding rectangle MUST be relative to the top, left corner of the window that contains the drawing page. All the values MUST be specified in **pixels**.

The string MUST be formatted using the **JavaScript Object Notation (JSON)**, as specified in [\[RFC4627\]](#), as follows:

```
{"x":x-val,"y":y-val,"width":width-val,"height":height-val}
```

where **x-val**, **y-val**, **width-val**, and **height-val** are integers specifying the x, y, width, and height fields, respectively.

DataBindingConflict: A Boolean that specifies the status of retrieving data from data providers for the drawing page. The value MUST be one of the following:

Value	Description
0	The drawing page does not have any data binding conflicts.
1	The drawing page does have data binding conflicts.

DocumentID: A string that specifies a **GUID** that identifies the file in a document repository that contains the web drawing being requested.

DocumentTimestamp: A string that specifies an opaque identifier for the version of the web drawing. The value MUST NOT be an empty string.

Name: A string that specifies the name of the drawing page. The value MUST NOT be an empty string. It MUST match the **Name** or **NameU** attribute of the **Page_Type** elements in the **Pages XML Part**, as specified in [\[MS-VSDX\]](#) section 2.2.2.1, of the web drawing. It MUST match a name in the **Name** attribute of one of the **PageInfo** child elements of the **Pages** element (section [2.2.9.1.2](#)).

ReadOnly: A Boolean that specifies the read-only state of the file in the document repository. A value of one indicates that the file is read-only; a value of zero indicates the file is not read-only.

RefreshWarning: An optional Boolean that specifies whether the drawing page was refreshed by the protocol server. A nonzero value indicates that data connections exist for the drawing page but that the drawing page was not refreshed from the data providers associated with these data connections.

RequiresCheckout: A Boolean that specifies whether or not the file requires check-out from the document repository. A value of one indicates that the file requires check-out; a value of zero indicates that the file does not require check-out.

UnsupportedFeatures: An integer that specifies features in the file that are not supported by the server. The value MUST be zero, or a bitwise or combination of one or more of the following values.

Value	Description
0x01	The file contains legacy ink.
0x02	The file contains one or more reviewer pages.
0x04	The file contains macros.
0x08	The file contains one or more embedded objects .

Value	Description
0x10	The file contains unsupported cell recalculations.

ViewOnly: A Boolean that specifies whether or not the file can be viewed but not opened from the document repository. A value of one indicates that the file is view only and cannot be opened; a value of zero indicates the file can be viewed and opened.

2.2.9.1.2 Pages

The **Pages** complex type specifies all the foreground pages (section [1.3.2.1](#)) in a web drawing (section [1.3.1](#)). One element is returned in the **Page** element of the web drawing.

```
<xs:complexType name="Pages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="PageInfo" minOccurs="1" maxOccurs="unbounded" type="PageInfo"/>
  </xs:sequence>
</xs:complexType>
```

2.2.9.1.3 PageInfo

The **Page Info** complex type specifies the identity of a drawing page (section [1.3.2](#)) in the web drawing (section [1.3.1](#)). One element is returned for each foreground page (section [1.3.2.1](#)) within the **Pages** element (section [2.2.9.1.2](#)).

```
<xs:complexType name="PageInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:attribute name="ID" type="xs:unsignedLong" use="required"/>
  <xs:attribute name="Name" type="xs:string" use="required"/>
</xs:complexType>
```

ID: An unsigned long that specifies the identifier of the drawing page. The value MUST match the **ID** attribute of one of the **Page_Type** elements in the **Pages XML Part**, as specified in [\[MS-VSDX\]](#) section 2.2.2.1, of the web drawing.

Name: A string that specifies the name of the drawing page. The value MUST NOT be an empty string. It MUST match the **Name** or **NameU** attribute of the **Page_Type** elements in the **Pages XML Part**, as specified in [\[MS-VSDX\]](#) section 2.2.2.1, of the web drawing referenced by the **ID** attribute.

2.2.9.1.4 ShapeInfo

The **ShapeInfo** complex type specifies information about a [shape](#). One element is returned for each relevant shape in the **Page** element of the [web drawing](#).

```
<xs:complexType name="ShapeInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="ShapeDataItems" minOccurs="0" maxOccurs="1" type="ShapeDataItems"/>
    <xs:element name="Hyperlinks" minOccurs="0" maxOccurs="1" type="Hyperlinks"/>
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required"/>
  <xs:attribute name="DisplayName" type="xs:string" use="optional"/>
  <xs:attribute name="Guid" type="xs:string" use="optional"/>
  <xs:attribute name="Layout" type="xs:string" use="required"/>
</xs:complexType>
```

```

<xs:attribute name="ShapeText" type="xs:string" use="optional"/>
<xs:attribute name="TabOrderString" type="xs:string" use="required"/>
</xs:complexType>

```

Name: A string that specifies the identifier of the shape. It MUST be the **ID** attribute of a shape, as specified in the ShapeSheet_Type, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.88, of the web drawing. It MUST NOT be an empty string, and it MUST be unique amongst all the identifiers specified by the **Name** attribute of the **ShapeInfo** elements in the containing **Page** element.

DisplayName: A string that specifies the display name for the shape. It MUST be the **Name** attribute of a shape, as specified in the ShapeSheet_Type, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.88, of the web drawing, of the shape specified by the **Name** attribute of this **ShapeInfo** element.

Guid : An optional string that specifies a GUID for the shape. If this attribute does not exist, the shape does not have a GUID. If this attribute exists, it MUST be the 32 letters and digits separated by hyphens contained in the **UniqueID** attribute of a shape, as specified in the ShapeSheet_Type, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.88, of the web drawing, of the shape specified by the **Name** attribute of this **ShapeInfo** element.

Layout: A string that specifies the geometric location of the shape. If the shape is 2D, the string specifies the bounding rectangle of the shape on the drawing page as specified in the following table.

Name	Description
x	An integer that specifies the upper left x-coordinate of the bounding rectangle.
y	An integer that specifies the upper left y-coordinate of the bounding rectangle.
width	A positive integer that specifies the width of the bounding rectangle.
height	A positive integer that specifies the height of the bounding rectangle.

The string MUST be formatted using the JavaScript Object Notation (JSON) as specified in [\[RFC4627\]](#) as follows:

```

{"type":"2D","bounds":{"x":x-val,"y":y-val,"width":width-val,"height":height-val}}

```

where **x-val**, **y-val**, **width-val**, and **height-val** are integers specifying the x, y, width, and height fields, respectively.

If the shape is 1D, the string specifies the begin and end coordinates of the shape as specified in the following table.

Name	Description
beginX	A decimal that specifies the x-coordinate of the beginning of the 1D shape.
beginY	A decimal that specifies the y-coordinate of the beginning of the 1D shape.
endX	A decimal that specifies the x-coordinate of the end of the 1D shape.
endY	A decimal that specifies the y-coordinate of the end of the 1D shape.

The string MUST be formatted using the JavaScript Object Notation as specified in [RFC4627](#) as follows:

```
{"type":"1D","points":{"beginX":beginx-val,"beginY":beginy-val, "":{"endX":endx-val,"endY":endy-val}}
```

where **beginx-val**, **beginy-val**, **endx-val**, and **endy-val** specify the beginX, beginY, endX, and endY fields, respectively.

The coordinates MUST be relative to the top left corner of the window that contains the drawing page (section [1.3.2](#)). All the values MUST be specified in pixels.

ShapeText: An optional string that specifies a text element. If this attribute exists, it is composed of information from the document, shape data items, recalculations on shape data items and formatting information, for a shape.

TabOrderString: A string that specifies the tab order of this shape on the drawing page. The format of the string MUST be "rowIndex_columnIndex", where rowIndex and columnIndex are unsigned integer values separated by an underscore "_".

2.2.9.1.5 Hyperlinks

The **Hyperlinks** complex type specifies each **Hyperlink** element (section [2.2.9.1.6](#)) associated with a [shape](#).

```
<xs:complexType name="Hyperlinks" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Hyperlink" minOccurs="1" maxOccurs="unbounded" type="Hyperlink"/>
  </xs:sequence>
</xs:complexType>
```

2.2.9.1.6 Hyperlink

The **Hyperlink** complex type specifies a hyperlink associated with a shape (section [1.3.3](#)). One element is returned for each visible hyperlink associated with the shape within a **ShapeInfo** element (section [2.2.9.1](#)).

```
<xs:complexType name="Hyperlink" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:attribute name="Name" type="xs:string" use="required"/>
  <xs:attribute name="Value" type="xs:string" use="optional"/>
  <xs:attribute name="Description" type="xs:string" use="optional"/>
  <xs:attribute name="SubAddress" type="xs:string" use="optional"/>
  <xs:attribute name="SubAddressShape" type="xs:string" use="optional"/>
  <xs:attribute name="Zoom" use="optional">
    <xs:simpleType>
      <xs:union>
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:minExclusive value="0"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:enumeration value="-2"/>
            <xs:enumeration value="-1"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

```

        </xs:restriction>
    </xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="Default" type="xs:boolean" use="optional"/>
</xs:complexType>

```

Name: A string attribute that specifies an identifier for a hyperlink. It MUST NOT be an empty string, and it MUST be unique among the identifiers specified by the **Name** attribute of the hyperlink elements in this XML part.

Value: An optional string attribute that specifies the URI of an external resource referenced by the hyperlink. If this attribute exists, it MUST NOT be an empty string, and the **SubAddress**, **SubAddressShape**, and **Zoom** elements MUST be ignored. If this attribute does not exist, **SubAddress** MUST exist.

Description: An optional string attribute that specifies the description of the hyperlink. If this attribute does not exist, the hyperlink does not have a description.

SubAddress: An optional string attribute that specifies the identifier of the drawing page (section [1.3.2](#)) referenced by this hyperlink within the web drawing (section [1.3.1](#)). If this attribute exists, it MUST NOT be an empty string. If this attribute does not exist, the **SubAddressShape** and **Zoom** elements MUST be ignored.

SubAddressShape: An optional string attribute that specifies the identifier of the shape referenced by this hyperlink within the drawing page specified by **SubAddress**. If this attribute exists, it MUST NOT be an empty string. If this attribute does not exist, the hyperlink references the entire drawing page.

Zoom: An optional integer attribute that specifies the **zoom level** for the drawing page specified by **SubAddress**. If this attribute does not exist, the zoom level is 100%. If this attribute does exist, it MUST be a value from the following table.

Value	Description
-2	The drawing page is zoomed to fit the width of the view.
-1	The drawing page is zoomed to fit in the view.
n > 0	The drawing page is zoomed to n%. n MUST be greater than zero.

Default: An optional **Boolean** attribute that specifies the default hyperlink associated with the shape. It MUST be true if and only if this hyperlink is the default. Each shape MUST NOT have more than one default hyperlink.

2.2.9.1.7 ShapeDataItems

The **ShapeDataItems** complex type specifies a list of [shape](#) data items, as specified in [\[MS-VSDX\]](#) section 2.2.3.6. One element is returned for visible shape data items associated with a shape within a **ShapeInfo** element (section [2.2.9.1](#)).

```

<xs:complexType name="ShapeDataItems" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="ShapeData" minOccurs="1" maxOccurs="unbounded" type="ShapeData"/>
  </xs:sequence>
</xs:complexType>

```

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

2.2.9.1.8 ShapeData

The **ShapeData** complex type specifies a [shape](#) data item, as specified in [\[MS-VSDX\]](#) section 2.2.3.6. One element is returned for each visible [shape data item](#) associated with the shape with a **ShapeInfo** element (section [2.2.9.1](#)).

```
<xs:complexType name="ShapeData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:attribute name="Name" type="xs:string" use="required"/>
  <xs:attribute name="FormattedValue" type="xs:string" use="required"/>
  <xs:attribute name="Value" type="xs:string" use="optional"/>
  <xs:attribute name="Format" type="xs:string" use="optional"/>
</xs:complexType>
```

Name: A string that is determined by a combination of shape data row properties that specifies the label of the shape data item.

FormattedValue: A string representation of the value of the data formatted for display. It MUST NOT be an empty string.

Value: An optional string that specifies the value of the shape data item, as specified in [\[MS-VSDX\]](#) section 2.2.3.6.

Format: An optional string that specifies a `vFormatString` custom structure, as specified in [\[MS-VSDX\]](#) section 2.5.9.6. If this attribute exists, it is used to format the value for display.

2.2.9.1.9 Shapes

The **Shapes** complex type specifies the geometric outline information for multiple [shapes](#). One element is returned for the [web drawing](#).

```
<xs:complexType name="Shapes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Shape" minOccurs="1" maxOccurs="unbounded" type="Shape"/>
  </xs:sequence>
</xs:complexType>
```

2.2.9.1.10 Shape

The **Shape** complex type specifies the geometric outline information for a [shape](#). One element is returned for each relevant shape.

```
<xs:complexType name="Shape" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="Path" minOccurs="1" maxOccurs="1" type="Path"/>
  </xs:sequence>
  <xs:attribute name="Name" type="xs:string" use="required"/>
</xs:complexType>
```

Name: A string that specifies the identifier of the **ShapeInfo** element (section [2.2.9.1](#)) in the **Page** structure (section [2.2.9.1.1](#)) that this element represents. It MUST match exactly the **Name** of a **ShapeInfo** element in the **Pages** element of this **Page** structure.

2.2.9.1.11 Path

The **Path** complex type specifies the geometric outline information for a [shape](#). One element is returned for a **Shape** element.

```
<xs:complexType name="Path" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:attribute name="Shape" type="xs:string" fixed="poly"/>
  <xs:attribute name="Data" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="\d*(,\d*){3,}" />
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
```

Shape: A string that specifies the type of outline. It MUST be equal to "poly".

Data: A string that specifies the Cartesian coordinates of the outline. It MUST have the following format:

`x1, y1, x2, y2... xn, yn`

The fields `xn` and `yn` MUST be integer values, and they MUST occur in pairs. Each `xn, yn` pair specifies the coordinates of a point that defines one vertex of the outline. The outline is formed by connecting the points in the order they appear in this string attribute. There MUST be at least 4 points. The first point MUST equal the last point. The coordinates MUST be measured in pixels relative to the top, left corner of the drawing page (section [1.3.2](#)) that contains the shape. All values MUST be separated by commas.

2.2.9.2 Comments

The **Comments** element is a string that specifies information about the [comments](#) in a drawing page (section [1.3.2](#)). [<2>](#) The syntax of this data structure is an XML fragment. Elements of this fragment are listed in the following sections.

2.2.9.2.1 Comments

The **Comments** complex type specifies all [comment](#) information for a drawing page (section [1.3.2](#)). There MUST be zero or exactly one instance of this element.

```
<xs:complexType name="comments" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="CommentEntry"/>
  </xs:sequence>
</xs:complexType>
```

The **Comments** element MUST contain one or more **CommentEntry** elements as specified in section [2.2.9.2.2](#).

2.2.9.2.2 CommentEntry

The **CommentEntry** complex type specifies a comment (section [1.3.5](#)) on a drawing page (section [1.3.2](#)).

```
<xs:complexType name="CommentEntry" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="CommentID" type="xs:string" use="required"/>
      <xs:attribute name="Author" type="xs:string" use="required"/>
      <xs:attribute name="ShapeID" type="xs:string" use="required"/>
      <xs:attribute name="CreationDate" type="xs:string" use="required"/>
      <xs:attribute name="ModifiedDate" type="xs:string" use="required"/>
      <xs:attribute name="Done" type="xs:string" use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

CommentID: An integer attribute that specifies the identifier of this comment. It MUST be greater than or equal to zero. It MUST be unique across all the **CommentEntry** elements in the containing **Comments** element (section [2.2.9.2](#)). It MUST match the value of a **CommentID** attribute in a **CommentEntry_Type** element, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.9, in the containing drawing page.

Author: A string attribute that specifies the display name of the author of this comment. The value MUST match the value of the **Name** attribute of an **AuthorEntry_Type**, as specified [\[MS-VSDX\]](#) section 2.3.4.2.2.

ShapeID: An integer attribute that specifies the identifier of the shape (section [1.3.3](#)) this comment is associated with. If no **ShapeID** is specified or if **ShapeID** is zero, the comment refers to the drawing page. If the attribute exists and is not zero, it MUST match the value of the **ID** attribute of a shape, as specified in the **ShapeSheet_Type**, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.88, of the web drawing (section [1.3.1](#)).

CreationDate: A **dateTime** attribute that specifies the date and time, in Coordinated Universal Time (UTC) format, of when the comment was created.

ModifiedDate: A **dateTime** attribute that specifies the date and time, in Coordinated Universal Time (UTC) format, of when the comment was last modified. This attribute MUST be greater than or equal to the value of **CreationDate**.

Done: A **Boolean** attribute that specifies the current state of the comment. A value of "true" indicates that the comment is completed; a value of "false" indicates that the comment is not completed.

2.2.9.3 CommentData

The **CommentData** attribute is a string that specifies a save comment action and the comment (section [1.3.5](#)) data for a shape (section [1.3.3](#)) or drawing page (section [1.3.2](#)) in the **VSDX** web drawing (section [1.3.1](#)).[<3>](#) The syntax of this data structure is an XML fragment. Elements of this fragment are listed in the following sections.

2.2.9.3.1 Comment

The **Comment** complex type specifies a comment (section 1.3.5) for a shape or drawing page (section 1.3.2) in a **VSDX** web drawing (section 1.3.1). There **MUST** be exactly one instance of this element, and it **MUST NOT** be null.

The value of the **Comment** element is a string with the comment text. Additional attributes define properties and actions for the comment.

```
<xs:complexType name="Comment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="Action" type="xs:string" use="required"/>
      <xs:attribute name="PageID" type="xs:integer" use="required"/>
      <xs:attribute name="ShapeID" type="xs:integer"/>
      <xs:attribute name="CommentID" type="xs:integer"/>
      <xs:attribute name="Author" type="xs:string"/>
      <xs:attribute name="ModifiedDate" type="xs:dateTime"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Action: A string attribute that specifies the action to perform. This attribute **MUST** exist, and it **MUST** be one of the following values.

Value	Description
"Add"	Write a new comment into the file using the contents and attributes of this element.
"Edit"	Edit an existing comment by modifying the file using the contents and attributes of this element.
"Delete"	Remove a comment from the file.
"Done"	Mark an existing comment as complete in the file.

PageID: An integer attribute that identifies the drawing page in the **VSDX** web drawing specified by **fileUrl** that the comment is on.

ShapeID: An integer attribute that specifies the identifier of the shape (section 1.3.3), within the drawing page specified by **PageID**, this comment is associated with. If no **ShapeID** is specified or if **ShapeID** is zero, the comment refers to the drawing page specified by **PageID**.

CommentID: An integer attribute that specifies the identifier of the comment. If the **Action** value is "Edit", "Delete" or "Done", this attribute **MUST** exist, and the value **MUST** match the value of the **CommentID** attribute of a **CommentEntry_Type**, as specified in [MS-VSDX] section 2.3.4.2.9, in the **VSDX** web drawing specified by **fileUrl**.

Author: A string attribute that specifies the display name of the author of this comment. If the **Action** value is "Add" or "Edit", this attribute **MUST** exist, and it **MUST NOT** be empty.

ModifiedDate: A **dateTime** attribute that specifies the date and time, in Coordinated Universal Time (UTC) format, of when the comment was last modified. If the **Action** value is "Delete" or "Edit", this attribute **MUST** exist, and it **MUST NOT** be null.

2.2.9.4 CommentResult

The **CommentResult** element is a string that specifies the result of the **SaveComments** operation (section [3.1.4.5](#)).^{<4>} The syntax of this data structure is an XML fragment. Elements of this fragment are listed in the following sections.

2.2.9.4.1 Comment

The **Comment** complex type specifies the result of a comment action (section [1.3.5](#)) in the **VSDX** web drawing (section [1.3.1](#)). The value of the **Comment** element is a string with comment text. Additional attributes define the properties and actions for the comment response.

```
<xs:complexType name="Comment" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="Action" type="xs:string" use="required"/>
      <xs:attribute name="ShapeID" type="xs:integer"/>
      <xs:attribute name="CommentID" type="xs:integer"/>
      <xs:attribute name="Author" type="xs:string"/>
      <xs:attribute name="CreationDate" type="xs:dateTime"/>
      <xs:attribute name="ModifiedDate" type="xs:dateTime"/>
      <xs:attribute name="Done" type="xs:boolean"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Action: A string attribute that specifies the action performed. It **MUST** exist, and it **MUST** be one of the following values:

Value	Description
"Add"	Add a new comment.
"Edit"	Edit an existing comment.
"Delete"	Delete an existing comment.
"Done"	Mark an existing comment as complete.

ShapeID: An integer attribute that specifies the identifier of a shape (section [1.3.3](#)) that this comment is associated with. If no **ShapeID** is specified or if **ShapeID** is zero, the comment refers to the drawing page (section [1.3.2](#)).

CommentID: An integer attribute that specifies the identifier of the comment. If the **Action** value is "Add" or "Edit", this attribute **MUST** exist, and the value **MUST** match the value of the **CommentID** attribute of a **CommentEntry_Type**, as specified in [\[MS-VSDX\]](#) section 2.3.4.2.9, in the **VSDX** web drawing specified by **fileUrl**.

Author: A string attribute that specifies the display name of the author of this comment. If the **Action** value is "Add", this attribute **MUST** exist, and it **MUST NOT** be empty.

CreationDate: A **dateTime** attribute that specifies the date and time, in Coordinated Universal Time (UTC) format, of when the comment was created. If the **Action** value is "Add" or "Edit", this attribute **MUST** exist, and it **MUST NOT** be null.

ModifiedDate: A **dateTime** attribute that specifies the date and time, in Coordinated Universal Time (UTC) format, of when the comment was last modified. If the **Action** value is "Delete" or "Edit", this attribute MUST exist, and it MUST NOT be null.

Done: A **Boolean** attribute that specifies the current state of the comment. If the **Action** value is "Done", this attribute MUST exist. A value of "true" indicates that the comment is completed; a value of "false" indicates that the comment has not been completed.

3 Protocol Details

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

Except where specified, protocol clients MUST interpret HTTP **Status-Codes** returned by the protocol server as specified in [\[RFC2616\]](#) (section 10, Status Code Definitions).

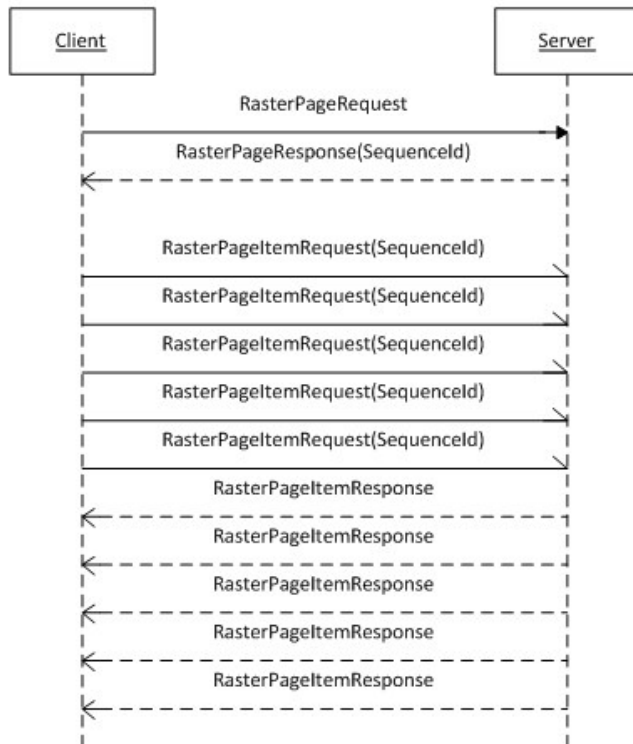
This protocol allows protocol servers to notify protocol clients of application-level faults using SOAP faults. Except where specified, these SOAP faults are not significant for interoperability, and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks, and notify protocol clients of authorization faults either using HTTP Status-Codes or using SOAP faults as specified previously in this section.

3.1 Common Details

The **GetRasterDiagram** (section [3.1.4.1](#)) and **GetVectorDiagram** (section [3.1.4.2](#)) WSDL operations are independent and stateless. The protocol server returns the requested drawing page (section [1.3.2](#)) of the specified **VGSFF web drawing** in raster and vector format, respectively. There are no interaction dependencies between instances of client and server.

The **GetRasterPage** (section [3.1.4.3](#)) and **GetRasterPageItem** (section [3.1.4.4](#)) WSDL operations are related and require client state. A drawing page (section [1.3.2](#)) of a **VSDX** web drawing in raster format is retrieved in full as a result of a message sequence, as illustrated in the following high-level sequence diagram:



First, the protocol client sends an **IVisioGraphicsService_GetRasterPage_InputMessage** request (section [3.1.4.3.1.1](#)) WSDL message that MUST be unconditional, as specified in section [3.1.1](#). The protocol server initiates the process of retrieving or generating the drawing page. The client waits for the server to respond with the **IVisioGraphicsService_GetRasterPage_OutputMessage** (section [3.1.4.3.1.2](#)) response WSDL message that contains drawing page information and includes a message sequence identifier. This message sequence identifier is set in the **SequenceId** element of the **RasterPageTag** complex type (section [3.1.4.3.3.3](#)) and is contained in the **EntityTag** element of the **RasterPageResponse** complex type (section [3.1.4.3.3.2](#)).

Then, the protocol client sends a sequence of **IVisioGraphicsService_GetRasterPageItem_InputMessage** request (section [3.1.4.4.1.1](#)) WSDL messages, one for each item, as specified in section [3.1.1](#), of the drawing page. The client MUST set the value of the **SequenceId** element of the **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)), to the message sequence identifier obtained in the preceding **IVisioGraphicsService_GetRasterPage_OutputMessage** response WSDL message. These requests are independent and can be sent asynchronously in any order. The protocol server uses the message sequence identifier to match the requests with the drawing page retrieved or generated as result of the **IVisioGraphicsService_GetRasterPage_InputMessage** request WSDL message that initiated the conversation. The server responds to each of these requests with a corresponding **IVisioGraphicsService_GetRasterPageItem_OutputMessage** response (section [3.1.4.4.1.2](#)) WSDL message that contains information about the requested item, as specified in section [3.1.1](#), of the drawing page.

The **SaveComments** WSDL operation (section [3.1.4.5](#)) is independent and stateless. The protocol server makes the requested [comment](#) updates and saves them to the specified web drawing. This web drawing file MUST conform to the format specified in [\[MS-VSDX\]](#) section 2.2.9.

3.1.1 Abstract Data Model

There is no abstract data model for a **VGSFF** [web drawing](#).

A drawing page (section [1.3.2](#)) of a **VSDX** web drawing in raster format is composed of 6 **items**: 4 images in Portable Network Graphics (PNG) format, as specified in [\[RFC2083\]](#), the [shape](#) information in XML format, as specified in section [2.2.9.1](#), and [comments](#) in XML format, as specified in section [2.2.9.2.<5>](#) Each image represents the drawing page in different sizes, as specified by the **ItemName** element of the **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)).

An **IVisioGraphicsService_GetRasterPage_InputMessage** request (section [3.1.4.3.1.1](#)) or an **IVisioGraphicsService_GetRasterPageItem_InputMessage** request (section [3.1.4.4.1.1](#)) WSDL message is unconditional if the value of the **EntityTag** element of the corresponding complex types **RasterPageRequest** (section [3.1.4.3.3.1](#)) and **RasterPageItemRequest** (section [3.1.4.4.3.1](#)), respectively, is null or empty, as specified by the **RasterPageTag** complex type (section [3.1.4.3.3.3](#)) and the **RasterPageItemTag** complex type (section [3.1.4.4.3.2](#)) respectively. Otherwise, the requesting WSDL message is conditional. Message sequencing rules for conditional messages are specified in [3.1.4](#).

After the initial request for a drawing page of a **VSDX** web drawing is processed and before returning the result to the protocol client, the protocol server caches it for future use. Subsequent requests for the same drawing page are served directly from this cache. The protocol server assigns a unique identifier, **OutputETag** element, to each version of a drawing page in the cache. The protocol server also assigns a unique identifier, **FileETag** element, for the current version of the web drawing that contains this drawing page in the cache. The **OutputETag** and **FileETag** are included in the **EntityTag** element of the **RasterPageResponse** complex type (section [3.1.4.3.3.2](#)). The **EntityTag** received by a client can be used on subsequent conditional requests to determine if the version of the drawing page cached on the client needs to be updated. The protocol server compares the **FileETag** and **OutputETag** from the **EntityTag** of the conditional **RasterPageTag** with the current **FileETag** and **OutputETag**, respectively, of the cached drawing page. If both elements match, the server returns a **RasterPageResponse** having the response code "NotModified"; otherwise, it generates a new drawing page.

3.1.2 Timers

The **Recalculation Timeout** timer measures the time it takes for the protocol server to recalculate the drawing page (section [1.3.2](#)) of a [web drawing](#). This timeout is configured on the protocol server.

The **Message Sequence Timeout** timer measures the time it takes for the protocol server to receive an **IVisioGraphicsService_GetRasterPageItem_InputMessage** request (section [3.1.4.4.1.1](#)) WSDL message beginning when the **IVisioGraphicsService_GetRasterPage_OutputMessage** response (section [3.1.4.3.1.2](#)) WSDL message is sent, in the sequence of messages to retrieve a drawing page of a **VSDX** web drawing in raster format, as specified in section [3.1.<6>](#) This timeout is set to one minute, and it is not configurable on the protocol server.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

The protocol operations can be executed in any order with the following restrictions:

- To fully retrieve a drawing page (section [1.3.2](#)) of a **VSDX web drawing** in raster format, the protocol client MUST follow the message sequence specified and illustrated in section [3.1](#).
- The protocol client can cache a fully retrieved drawing page of a **VSDX web drawing** in raster format. Furthermore, it can use the information set by the protocol server in the **EntityTag** element of the **RasterPageResponse** complex type (section [3.1.4.3.3.2](#)) and send it back to the server in the **EntityTag** element of a subsequent **RasterPageRequest** complex type (section [3.1.4.3.3.1](#)) in a conditional message. Based on that information, if the server decides that the drawing page has not changed, it responds with a **RasterPageResponse** having the response code "NotModified". Similarly the client can use the information set by the server in the **EntityTag** element of a **RasterPageItemResponse** complex type (section [3.1.4.4.3.3](#)) and send it back to the server in the **EntityTag** element of a subsequent **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)) in a conditional message. If the server decides that the requested item, as specified in section [3.1.1](#), of the drawing page has not changed, it responds with a **RasterPageItemResponse** having the response code "NotModified". In these cases, the server expects the client will use the drawing page data that it cached previously. This mechanism reduces network traffic.
- If a **GetRasterPageItem** operation (section [3.1.4.4](#)) is not preceded by a **GetRasterPage** operation (section [3.1.4.3](#)) or the protocol server cannot match the value of the **SequenceId** element of the **RasterPageItemRequest**, as specified in section [3.1](#), it MUST return a **RasterPageItemResponse** with the response code "NotModified".

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

Operation	Description
GetRasterDiagram	The GetRasterDiagram operation retrieves a drawing page (section 1.3.2) from the VGSFF web drawing (section 1.3.1) rendered in a raster format.
GetRasterPage	The GetRasterPage operation retrieves information about a drawing page (section 1.3.2) of a VSDX web drawing rendered in raster format. <7>
GetRasterPageItem	The GetRasterPageItem operation retrieves an item, as specified in section 3.1.1 , of a drawing page (section 1.3.2) of a VSDX web drawing rendered in raster format. <8>
GetVectorDiagram	The GetVectorDiagram operation retrieves a drawing page (section 1.3.2) from the VGSFF web drawing rendered in a vector format.
SaveComments	The SaveComments operation saves a comment to a VSDX web drawing in a document repository, in the form of a CommentEntry_Type element as specified [MS-VSDX] section 2.3.4.2.9. <9>

3.1.4.1 GetRasterDiagram

The **GetRasterDiagram** operation retrieves a drawing page (section [1.3.2](#)) from the **VGSFF** web drawing (section [1.3.1](#)) rendered in a raster format.

The following is the WSDL port type specification of the **GetRasterDiagram** WSDL operation.

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

```

    <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
    message="tns2:IVisioGraphicsService_GetRasterDiagram_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:output
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse"
    message="tns2:IVisioGraphicsService_GetRasterDiagram_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramVisioGraphicsServiceFaultFault" name="VisioGraphicsServiceFaultFault"
    message="tns2:IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IVisioGraphicsService_GetRasterDiagram_InputMessage** request (section [3.1.4.1.1.1](#)) WSDL message, and the protocol server MUST respond with an **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response (section [3.1.4.1.1.2](#)) WSDL message as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, the protocol server MUST respond with a **VisioGraphicsServiceFault** complex type (section [2.2.4.5](#)) SOAP fault with the **Error** field set to the correct **FaultCode** value (section [2.2.5.1](#)).
2. Otherwise, the protocol server MUST return a **RasterDiagram** complex type (section [3.1.4.1.3.2](#)).

If the requested drawing page contains data providers to be implemented by the protocol client, the following sequence of messages MUST be followed:

1. The protocol server MUST respond with an **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response WSDL message. The data providers MUST be specified in the **DataSources** element of the **RasterDiagram** contained within this response. The **Image** element of this **RasterDiagram** MUST be null.
2. The protocol client MUST retrieve the data from the data providers and send another **IVisioGraphicsService_GetRasterDiagram_InputMessage** request WSDL message. This request MUST be identical to the original request except that the **DataSources** element of the **RasterDiagramRequestContract** complex type (section [3.1.4.1.3.1](#)) MUST NOT be null.
3. The protocol server MUST respond with an **IVisioGraphicsService_GetRasterDiagram_OutputMessage** response WSDL message. If no errors occurred, the response MUST contain a **RasterDiagram**, and the **Image** element of the **RasterDiagram** MUST NOT be null.

3.1.4.1.1 Messages

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

Message	Description
IVisioGraphicsService_GetRasterDiagram_InputMessage	The request WSDL message for the GetRasterDiagram WSDL operation.

Message	Description
IVisioGraphicsService_GetRasterDiagram_OutputMessage	The response WSDL message for the GetRasterDiagram WSDL operation.
IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_Fault Message	The fault WSDL message for the GetRasterDiagram WSDL operation.

3.1.4.1.1.1 IVisioGraphicsService_GetRasterDiagram_InputMessage

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

The **SOAP action** value is:

```
http://tempuri.org/IVisioGraphicsService/GetRasterDiagram
```

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

3.1.4.1.1.2 IVisioGraphicsService_GetRasterDiagram_OutputMessage

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

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

3.1.4.1.1.3

IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_Fault Message

The fault WSDL message for the **GetRasterDiagram** WSDL operation.

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

3.1.4.1.2 Elements

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

Element	Description
GetRasterDiagram	The input data for the GetRasterDiagram WSDL operation.
GetRasterDiagramResponse	The result data for the GetRasterDiagram WSDL operation.

3.1.4.1.2.1 GetRasterDiagram

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


```

<xs:element name="GetRasterDiagram" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" minOccurs="0" name="rasterDiagramRequestContract" nillable="true"
        type="tns:RasterDiagramRequestContract"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

rasterDiagramRequestContract: The request parameters for a **GetRasterDiagram** WSDL operation (section [3.1.4.1](#)). There MUST be exactly one instance of this element.

3.1.4.1.2.2 GetRasterDiagramResponse

The **GetRasterDiagramResponse** element specifies the result data for the **GetRasterDiagram** WSDL operation.

```

<xs:element name="GetRasterDiagramResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" minOccurs="0" name="GetRasterDiagramResult" nillable="true" type="tns:RasterDiagram"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetRasterDiagramResult: The results for a **GetRasterDiagram** WSDL operation (section [3.1.4.1](#)). There MUST be exactly one instance of this element.

3.1.4.1.3 Complex Types

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

Complex type	Description
RasterDiagram	The response data from the GetRasterDiagram WSDL operation.
RasterDiagramRequestContract	The input data for the GetRasterDiagram WSDL operation.

3.1.4.1.3.1 RasterDiagramRequestContract

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **RasterDiagramRequestContract** complex type contains information used to specify the request parameters for a **GetRasterDiagram** WSDL operation (section [3.1.4.1](#)). This complex type inherits from the **BaseRequestContract** complex type, as specified in section [2.2.4.3](#), which specifies additional parameters.

```

<xs:complexType name="RasterDiagramRequestContract"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence>
        <xs:element minOccurs="0" name="Resolution" type="xs:int"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

Resolution: An integer that is unused, and MUST be equal to 1 or 2.

3.1.4.1.3.2 RasterDiagram

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **RasterDiagram** complex type contains information used to specify the response for a **GetRasterDiagram** WSDL operation (section 3.1.4.1). This complex type inherits from the **DiagramBase** complex type, as specified in section 2.2.4.4, which specifies additional parameters.

```

<xs:complexType name="RasterDiagram" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="AreaMaps" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="Image" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

AreaMaps: A string that specifies the geometric outline information of the shapes, as specified in section 1.3.3, in the raster image. The format of this data is specified in [RFC1980]. There MUST be exactly one instance of this element.

Image: A base64Binary that specifies the drawing page, as specified in section 1.3.2, as a raster image in PNG format, as specified in [RFC2083]. There MUST be exactly one instance of this element.

ShapeInfo: A string that specifies information about the shapes, as specified in section 1.3.3, in the drawing page, as specified in section 1.3.2. There MUST be exactly one instance of this element.

The syntax of this element is specified in [MS-VGSFF] section 2.4.8. The syntax of this element is also specified by additional attributes of the **CT_Page** element, as specified in [MS-VGSFF] section 2.4.8.2.8, that are listed in the following table.

Attribute of CT_Page element	Description
Conflict	An optional integer that specifies the status of retrieving data from data providers for the drawing page (section 1.3.2).

Attribute of CT_Page element	Description
DocumentID	A string that specifies a GUID that identifies the file in a document repository that contains the VGSFF web drawing that is being requested.
DocumentTimestamp	A long value that specifies the number of ticks (10,000 per millisecond) that elapsed between 12:00:00 midnight, January 1, 0001 and when the file in a document repository that contains the VGSFF web drawing was last modified in the document repository.
RefreshWarning	An optional integer that specifies whether the drawing page was refreshed by the protocol server. If this attribute is present, a value of one indicates that data connections (2) exist for the drawing page, but that the drawing page was not refreshed from the data providers associated with these data connections (2).

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 GetVectorDiagram

The **GetVectorDiagram** operation retrieves a drawing page (section [1.3.2](#)) from the **VGSFF** [web drawing](#) rendered in a vector format.

The following is the WSDL port type specification of the **GetVectorDiagram** WSDL operation.

```
<wsdl:operation name="GetVectorDiagram" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
    message="tns2:IVisioGraphicsService_GetVectorDiagram_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse"
    message="tns2:IVisioGraphicsService_GetVectorDiagram_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramVisioGraphicsServiceFaultFault"
    name="VisioGraphicsServiceFaultFault"
    message="tns2:IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IVisioGraphicsService_GetVectorDiagram_InputMessage** request (section [3.1.4.2.1.1](#)) WSDL message, and the protocol server MUST respond with an

IVisioGraphicsService_GetVectorDiagram_OutputMessage response (section [3.1.4.2.1.2](#)) WSDL message as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, the protocol server MUST respond with a **VisioGraphicsServiceFault** complex type (section [2.2.4.5](#)) SOAP fault with the **Error** field set to the correct **FaultCode** value (section [2.2.5.1](#)).
2. Otherwise, the protocol server MUST return a **VectorDiagram** complex type (section [3.1.4.2.3.2](#)).

If the requested drawing page contains data providers to be implemented by the protocol client, the following sequence of messages MUST be followed:

1. The protocol server MUST respond with an **IVisioGraphicsService_GetVectorDiagram_OutputMessage** response WSDL message. The data providers MUST be specified in the **DataSources** element of the **VectorDiagram** contained within this response. The **OutputPage** element of this **VectorDiagram** MUST be null.
2. The protocol client MUST retrieve the data from the data providers and send another **IVisioGraphicsService_GetVectorDiagram_InputMessage** request WSDL message. This request MUST be identical to the original request except that the **DataSources** element of the **VectorDiagramRequestContract** complex type (section [3.1.4.2.3.1](#)) MUST NOT be null.
3. The protocol server MUST respond with an **IVisioGraphicsService_GetVectorDiagram_OutputMessage** response WSDL message. If no errors occurred, the response MUST contain a **VectorDiagram** and the **OutputPage** element of the **VectorDiagram** MUST NOT be null.

3.1.4.2.1 Messages

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

Message	Description
IVisioGraphicsService_GetVectorDiagram_InputMessage	The request WSDL message for the GetVectorDiagram WSDL operation.
IVisioGraphicsService_GetVectorDiagram_OutputMessage	The response WSDL message for the GetVectorDiagram WSDL operation.
IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_Fault Message	The fault WSDL message for the GetVectorDiagram WSDL operation.

3.1.4.2.1.1 IVisioGraphicsService_GetVectorDiagram_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetVectorDiagram
```

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

3.1.4.2.1.2 IVisioGraphicsService_GetVectorDiagram_OutputMessage

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

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

3.1.4.2.1.3

IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage

The fault WSDL message for the **GetVectorDiagram** WSDL operation.

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

3.1.4.2.2 Elements

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

Element	Description
GetVectorDiagram	The input data for the GetVectorDiagram WSDL operation.
GetVectorDiagramResponse	The result data for the GetVectorDiagram WSDL operation.

3.1.4.2.2.1 GetVectorDiagram

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

```
<xs:element name="GetVectorDiagram" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" minOccurs="0" name="vectorDiagramRequest" nillable="true"
        type="tns:VectorDiagramRequestContract"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

vectorDiagramRequest: The request parameters for a **GetVectorDiagram** (section [3.1.4.2](#)) WSDL operation. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.2.2.2 GetVectorDiagramResponse

The **GetVectorDiagramResponse** element specifies the result data for the **GetVectorDiagram** WSDL operation.

```

<xs:element name="GetVectorDiagramResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        minOccurs="0" name="GetVectorDiagramResult" nillable="true" type="tns:VectorDiagram"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetVectorDiagramResult: The results for a **GetVectorDiagram** (section [3.1.4.2](#)) WSDL operation. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.2.3 Complex Types

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

Complex type	Description
ArrayOfDiagramResource	An array of resources information contained in the RenderedPage complex type (section 3.1.4.2.3.3).
DiagramResource	A font or an image required by a drawing page.
RenderedPage	The drawing page (section 1.3.2) information contained in the VectorDiagram complex type (section 3.1.4.2.3.2).
VectorDiagram	The response data from the GetVectorDiagram WSDL operation.
VectorDiagramRequestContract	The input data for the GetVectorDiagram (section 3.1.4.2) WSDL operation.

3.1.4.2.3.1 VectorDiagramRequestContract

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **VectorDiagramRequestContract** complex type contains information used to specify the request parameters for a **GetVectorDiagram** (section [3.1.4.2](#)) WSDL operation. This complex type inherits from the **BaseRequestContract** complex type (section [2.2.4.3](#)), which specifies additional parameters.

```

<xs:complexType name="VectorDiagramRequestContract"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

3.1.4.2.3.2 VectorDiagram

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **VectorDiagram** complex type contains information used to specify the response for a **GetVectorDiagram** (section [3.1.4.2](#)) WSDL operation. This complex type inherits from **DiagramBase** complex type (section [2.2.4.4](#)), which specifies additional parameters.

```
<xs:complexType name="VectorDiagram" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="OutputPage" nillable="true" type="tns:RenderedPage"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

OutputPage: A **RenderedPage** complex type (section [3.1.4.2.3.3](#)), that specifies the drawing page (section [1.3.2](#)) in vector format.

3.1.4.2.3.3 RenderedPage

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **RenderedPage** complex type contains information that specifies a drawing page, as specified in section [1.3.2](#), in a vector format.

```
<xs:complexType name="RenderedPage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Resources" nillable="true"
      type="tns:ArrayOfDiagramResource"/>
    <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Xaml" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

Resources: An **ArrayOfDiagramResource**, as specified in section [3.1.4.2.3.4](#), that specifies all the resources used by the **Xaml** field. There MUST be exactly one instance of this element, and it MUST NOT be null.

ShapeInfo: A string that specifies information about the shapes, as specified in section [1.3.3](#), in the drawing page, as specified in section [1.3.2](#). There MUST be exactly one instance of this element, and it MUST NOT be null.

The syntax of this element is specified in [\[MS-VGSFF\]](#) section 2.4.8. The syntax of this element is also specified by additional attributes of the **CT_Page** element, as specified in [\[MS-VGSFF\]](#) section 2.4.8.2.8, that are listed in the following table.

Attribute of CT_Page element	Description
Conflict	An integer that specifies the status of retrieving data from data providers for

Attribute of CT_Page element	Description
	the drawing page (section 1.3.2).
DocumentID	A string that specifies a GUID that identifies the file in a document repository that contains the VGSFF web drawing being requested.
DocumentTimestamp	A long value that specifies the number of ticks (10,000 per millisecond) that elapsed between 12:00:00 midnight, January 1, 0001 and when the file in a document repository that contains the VGSFF web drawing was last modified in the document repository
RefreshWarning	An optional integer that specifies whether the drawing page was refreshed by the protocol server. If this attribute is present, a value of one indicates that data connections (2) exist for the drawing page but that the drawing page was not refreshed from the data providers associated with these data connections (2).

Xaml: A string that specifies the vector drawing page, as specified in section [1.3.2](#), in XAML format, as specified in [\[MS-SLXV\]](#). There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.2.3.4 ArrayOfDiagramResource

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **ArrayOfDiagramResource** complex type contains an array of **DiagramResource** complex types (section [3.1.4.2.3.5](#)).

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

DiagramResource: A **DiagramResource** element that specifies the **fonts** and images required by a drawing page (section [1.3.2](#)). It MUST NOT be null.

3.1.4.2.3.5 DiagramResource

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **DiagramResource** complex type contains information that specifies either a font or an image required by a drawing page (section [1.3.2](#)).

```
<xs:complexType name="DiagramResource" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="ByteData" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```


ByteData: A base64Binary that specifies the resource in the format of a stream of bytes. There MUST be exactly one instance of this element.

Name: A string that specifies the name for the resource as referenced by the **Xaml** field of the **RenderedPage** complex type (section [3.1.4.2.3.3](#)). It MUST refer to either a font as specified in [\[MS-VGSFF\]](#) section 2.1.6.2 or an image as a specified in [\[MS-VGSFF\]](#) section 2.1.6.3. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 GetRasterPage

The **GetRasterPage** operation retrieves information about a drawing page (section [1.3.2](#)) of a **VSDX web drawing** rendered in raster format. [<10>](#)

The following is the WSDL port type specification of the **GetRasterPage** WSDL operation.

```
<wsdl:operation name="GetRasterPage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPage"
    message="tns2:IVisioGraphicsService_GetRasterPage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageResponse"
    message="tns2:IVisioGraphicsService_GetRasterPage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageVisioGraphicsServiceFaultF
    ault" name="VisioGraphicsServiceFaultFault"
    message="tns2:IVisioGraphicsService_GetRasterPage_VisioGraphicsServiceFaultFault_FaultMessage
    " xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IVisioGraphicsService_GetRasterPage_InputMessage** request (section [3.1.4.3.1.1](#)) WSDL message, and the protocol server MUST respond with an **IVisioGraphicsService_GetRasterPage_OutputMessage** response (section [3.1.4.3.1.2](#)) WSDL message as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, the protocol server MUST respond with a **VisioGraphicsServiceFault** complex type (section [2.2.4.5](#)) SOAP fault having the **Error** field set to the corresponding **FaultCode** value (section [2.2.5.1](#)).
2. If the protocol server determines that the drawing page requested by the protocol client has not changed, based on the information set in the **EntityTag** element of the **RasterPageRequest**

complex type (section [3.1.4.3.3.1](#)), as described in the Messages and Event Sequence Rules in section [3.1.4](#), the protocol server MUST return a **RasterPageResponse** (section [3.1.4.3.3.2](#)) with the response code "NotModified".

3. If the requested drawing page contains data providers to be implemented by the protocol client, the protocol server MUST return a **RasterPageResponse** with the response code "DataSources" and the following sequence of messages MUST be followed:
 1. The protocol server MUST respond with an **IVisioGraphicsService_GetRasterPage_OutputMessage** response (section [3.1.4.3.1.2](#)) WSDL message. The data providers MUST be specified in the **DataSources** element of the **RasterPageResponse** complex type (section [3.1.4.3.3.2](#)) contained within this response.
 2. The protocol client MUST retrieve the data from the data providers and MUST send another **IVisioGraphicsService_GetRasterPage_InputMessage** request (section [3.1.4.3.1.1](#)) WSDL message. This request MUST be identical to the original request except that the **DataSources** element of the **RasterPageRequest** complex type (section [3.1.4.3.3.1](#)) MUST NOT be null.
 3. The protocol server MUST respond with an **IVisioGraphicsService_GetRasterPage_OutputMessage** response WSDL message. If no errors occurred, the response MUST contain a **RasterPageResponse** with the response code "OK".
4. Otherwise, the protocol server MUST return a **RasterPageResponse** with the response code **OK**.

3.1.4.3.1 Messages

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

Message	Description
IVisioGraphicsService_GetRasterPage_InputMessage	The request WSDL message for the GetRasterPage WSDL operation.
IVisioGraphicsService_GetRasterPage_OutputMessage	The response WSDL message for the GetRasterPage WSDL operation.
IVisioGraphicsService_GetRasterPage_VisioGraphicsServiceFaultFault_FaultMessage	The fault WSDL message for the GetRasterPage WSDL operation.

3.1.4.3.1.1 IVisioGraphicsService_GetRasterPage_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/GetRasterPage
```

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

3.1.4.3.1.2 IVisioGraphicsService_GetRasterPage_OutputMessage

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

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

3.1.4.3.1.3

IVisioGraphicsService_GetRasterPage_VisioGraphicsServiceFaultFault_FaultMessage

The fault WSDL message for the **GetRasterPage** WSDL operation.

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

3.1.4.3.2 Elements

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

Element	Description
GetRasterPage	The input data for the GetRasterPage WSDL operation.
GetRasterPageResponse	The result data for the GetRasterPage WSDL operation.

3.1.4.3.2.1 GetRasterPage

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

```
<xs:element name="GetRasterPage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        minOccurs="0" name="rasterPageRequestContract" nillable="true"
        type="tns:RasterPageRequest"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rasterPageRequestContract: A **RasterPageRequest** complex type (section [3.1.4.3.3.1](#)) that specifies the input data. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.3.2 GetRasterPageResponse

The **GetRasterPageResponse** element specifies the result data for the **GetRasterPage** WSDL operation.

```
<xs:element name="GetRasterPageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" minOccurs="0" name="GetRasterPageResult" nillable="true" type="tns:RasterPageResponse"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

GetRasterPageResult: A **RasterPageResponse** complex type (section [3.1.4.3.3.2](#)), that specifies the result data. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.3.3 Complex Types

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

Complex type	Description
RasterPageInfo	The information about a drawing page of a VSDX web drawing .
RasterPageRequest	The set of elements that specifies the input data for a GetRasterPage (section 3.1.4.3) WSDL operation.
RasterPageResponse	A set of elements that specifies the result data for a GetRasterPage WSDL operation.
RasterPageTag	The set of elements that specifies opaque information assigned by the protocol server to a drawing page (section 1.3.2) of a VSDX web drawing when it is requested for the first time. It is used on subsequent requests to determine whether the same drawing page has changed since the initial request.

3.1.4.3.3.1 RasterPageRequest

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageRequest** complex type contains the set of elements that specifies the input data for a **GetRasterPage** (section [3.1.4.3.2.1](#)) WSDL operation.

```
<xs:complexType name="RasterPageRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
      type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageTag"/>
    <xs:element minOccurs="0" name="FileUrl" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="PageId" type="xs:long"/>
    <xs:element minOccurs="0" name="RefreshCookie" nillable="true" type="xs:string"/>
  </xs:sequence>
```

</xs:complexType>

DataModeName: A string that specifies whether the protocol server refreshes the requested drawing page (section [1.3.2](#)). There MUST be exactly one instance of this element, and it MUST be one of the following values.

Value	Description
Static	The drawing page MUST NOT be updated, and contains only data embedded in the corresponding web drawing .
DynamicSafe	The protocol server will decide whether the refresh queries, specified by the Command attribute described in [MS-VSDX] section 2.3.4.2.37, are safe to execute in order to retrieve data from data providers. If all the queries are considered safe, or if RefreshCookie matches the current FileETag (section 3.1.1), as specified in the description of the RefreshCookie element, the drawing page MUST be updated with data retrieved from data providers, as specified in [MS-VSDX] section 2.2.10, and from the system, as specified in [MS-VSDX] section 2.2.11. Otherwise, the drawing page MUST NOT be refreshed, as specified by Static , and the Page element of the shape information XML, specified in section 3.1.1 , MUST have the RefreshWarning attribute set to one, as specified in section 2.2.9.1.1 . This allows the protocol client to implement a mechanism that requests permission from the user before executing queries that are not considered safe.

DataSources: An **ArrayOfAddonDataSource** complex type (section [2.2.4.2](#)) that specifies the data providers implemented by a protocol client and used in the requested drawing page. There MUST be exactly one instance of this element. It MUST have zero child elements if there are no data providers. If **DataSources** has child elements, the **Data** field of each **AddonDataSource** complex type (section [2.2.4.1](#)) MUST NOT be null.

EntityTag: A **RasterPageTag** complex type (section [3.1.4.3.3.3](#)) that specifies opaque information about the requested drawing page, and used by the protocol server to determine if the drawing page has changed since it was initially requested. There MUST be exactly one instance of this element. A null or empty value indicates an unconditional message as specified in section [3.1.1](#).

FileUrl: An **anyURI** that specifies the URL of the file in a document repository that contains the web drawing being requested. There MUST be exactly one instance of this element, and it MUST NOT be null.

PageId: A long that specifies the requested drawing page. If greater than or equal to zero it specifies the identifier of the drawing page. If less than zero it specifies the bitwise complement of the zero-based index of the drawing page. There MUST be exactly one instance of this element.

RefreshCookie: A string that specifies a version of the web drawing that contains the requested drawing page. There MUST be exactly one instance of this element. It MUST match the current **FileETag** (section [3.1.1](#)), in order for the protocol server to refresh the drawing page, as specified in the description of the **DynamicSafe** value of the **DataModeName** element. The matching is performed through string comparison using ordinal sort rules, with the exception of the value "*", which matches any **FileETag**. It MUST be ignored if **DataModeName** is not **DynamicSafe**.

3.1.4.3.3.2 RasterPageResponse

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageResponse** complex type contains the set of elements that specifies the result data for a **GetRasterPage** (section [3.1.4.3](#)) WSDL operation.

```
<xs:complexType name="RasterPageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageTag"/>
    <xs:element minOccurs="0" name="PageInfo" nillable="true" type="tns:RasterPageInfo"/>
    <xs:element minOccurs="0" name="ResponseCode" type="tns:RasterPageResponseCode"/>
  </xs:sequence>
</xs:complexType>
```

DataSources: An **ArrayOfAddonDataSource** complex type (section [2.2.4.2](#)) that specifies the data providers implemented by a protocol client and used in the requested drawing page. There MUST be exactly one instance of this element. It MUST have zero child elements, if there are no data providers. If **DataSources** has child elements, the **Data** field of each contained **AddonDataSource** complex type (section [2.2.4.1](#)) MUST NOT be empty. If the value of **ResponseCode** is "DataSources", it MUST NOT be null or empty. Otherwise, the **DataSources** element MUST be null.

EntityTag: A **RasterPageTag** complex type (section [3.1.4.3.3.3](#)), that specifies opaque information about the requested drawing page. There MUST be exactly one instance of this element. If the value of **ResponseCode** is "OK" or "NotModified", it MUST NOT be null. If the value of **ResponseCode** is "NotModified", it MUST be equal to the value of the **EntityTag** element of the corresponding **RasterPageRequest** complex type (section [3.1.4.3.3.1](#)). Otherwise, the **EntityTag** element MUST be null.

PageInfo: A **RasterPageInfo** complex type (section [3.1.4.3.3.4](#)) that specifies information about the requested drawing page. There MUST be exactly one instance of this element. If the value of **ResponseCode** is "OK", it MUST NOT be null. Otherwise, the **PageInfo** element MUST be null.

ResponseCode: A **RasterPageResponseCode** value (section [3.1.4.3.4.1](#)) that specifies the type of the response. There MUST be exactly one instance of this element.

3.1.4.3.3.3 RasterPageTag

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageTag** complex type contains the set of elements that specifies opaque information assigned by the protocol server to a drawing page of a **VSDX web drawing** when it is requested for the first time, and used on subsequent requests to determine whether the same drawing page has changed since the initial request. A **RasterPageTag** is empty if all its elements have default values.

```
<xs:complexType name="RasterPageTag" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FileETag" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="OutputETag" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SequenceId" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

DataModeName: A string, that specifies whether the drawing page was refreshed by the protocol server. There MUST be exactly one instance of this element, and it MUST be one of the following values.

Value	Description
Static	The drawing page was not updated, and contains only data embedded in the corresponding web drawing. This is the default value.
Dynamic	The drawing page was updated with data retrieved from data providers, as specified in [MS-VSDX] section 2.2.10, or from the system, as specified in [MS-VSDX] section 2.2.11.

FileETag: A string that specifies an opaque identifier for the version of the web drawing. There MUST be exactly one instance of this element. It MUST NOT be null if **OutputETag** or **SequenceId** is not null. The default value is null.

OutputETag: A string that specifies an opaque identifier for the entity that stores the drawing page in the protocol server's output cache, as described in the Messages and Event Sequence Rules in section [3.1.4](#). There MUST be exactly one instance of this element. It MUST NOT be null if **FileETag** or **SequenceId** is not null. The default value is null.

SequenceId: A string that specifies an identifier for the sequence of subsequent messages required to retrieve the items of the drawing page, as specified in section [3.1](#). There MUST be exactly one instance of this element. It MUST NOT be null if **FileETag** or **OutputETag** is not null. The default value is null.

3.1.4.3.3.4 RasterPageInfo

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageInfo** complex type contains information about a drawing page (section [1.3.2](#)) of a **VSDX web drawing** rendered in raster format.

```
<xs:complexType name="RasterPageInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
      minOccurs="0" name="ZoomValues" nillable="true" type="q1:ArrayOfint"/>
  </xs:sequence>
</xs:complexType>
```

ZoomValues: An **ArrayOfInt** that contains the zoom values for the items of a drawing page, as specified in section [3.1.1](#), which correspond to images. There MUST be exactly one instance of this element. The length of the array MUST be equal to 4. Each zoom value in the array MUST be an **integer** greater than or equal to 10, and less than or equal to 200.

3.1.4.3.4 Simple Types

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

Simple type	Description
RasterPageResponseCode	The possible types of response codes returned as an element of a GetRasterPage (section 3.1.4.3) WSDL operation.

3.1.4.3.4.1 RasterPageResponseCode

Namespace:

http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer

The **RasterPageResponseCode** simple type specifies the possible types of response codes returned as an element of a **GetRasterPage** (section [3.1.4.3](#)) WSDL operation.

```
<xs:simpleType name="RasterPageResponseCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotModified"/>
    <xs:enumeration value="OK"/>
    <xs:enumeration value="DataSources"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
NotModified	Specifies that the requested drawing page (section 1.3.2) has not changed since it was initially requested by the protocol client.
OK	Specifies that the response includes full information about the requested drawing page.
DataSources	Specifies that the response includes information about the data providers implemented by the protocol client and used by the requested drawing page.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 GetRasterPageItem

The **GetRasterPageItem** operation retrieves an item, as specified in section [3.1.1](#), of a drawing page (section [1.3.2](#)) of a **VSDX web drawing** rendered in raster format. [<11>](#)

The following is the WSDL port type specification of the **GetRasterPageItem** WSDL operation.

```
<wsdl:operation name="GetRasterPageItem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItem"
    message="tns2:IVisioGraphicsService_GetRasterPageItem_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItemResponse"
    message="tns2:IVisioGraphicsService_GetRasterPageItem_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

<wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItemVisioGraphicsServiceFaultFault" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_GetRasterPageItem_VisioGraphicsServiceFaultFault_FaultMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IVisioGraphicsService_GetRasterPageItem_InputMessage** request (section [3.1.4.4.1.1](#)) WSDL message, and the protocol server MUST respond with an **IVisioGraphicsService_GetRasterPageItem_OutputMessage** response (section [3.1.4.4.1.2](#)) WSDL message as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, then the protocol server SHOULD [<12>](#) respond with a **VisioGraphicsServiceFault** complex type (section [2.2.4.5](#)) SOAP fault with the **Error** field set to the correct **FaultCode** value (section [2.2.5.1](#)).
2. If the protocol server determines that the item specified by the protocol client has not changed based on the information set in the **EntityTag** element of the **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)), as specified in section [3.1.4](#), the protocol server MUST return a **RasterPageItemResponse** complex type (section [3.1.4.4.3.3](#)) with the response code "NotModified".
3. Otherwise, the protocol server MUST return a **RasterPageItemResponse** with the response code "OK".

3.1.4.4.1 Messages

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

Message	Description
IVisioGraphicsService_GetRasterPageItem_InputMessage	The request WSDL message for the GetRasterPageItem WSDL operation.
IVisioGraphicsService_GetRasterPageItem_OutputMessage	The response WSDL message for the GetRasterPageItem WSDL operation.
IVisioGraphicsService_GetRasterPageItem_VisioGraphicsServiceFaultFault_FaultMessage	The fault WSDL message for the GetRasterPageItem WSDL operation.

3.1.4.4.1.1 IVisioGraphicsService_GetRasterPageItem_InputMessage

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

The SOAP action value is:

<http://tempuri.org/IVisioGraphicsService/GetRasterPageItem>

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

3.1.4.4.1.2 IVisioGraphicsService_GetRasterPageItem_OutputMessage

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

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

3.1.4.4.1.3

IVisioGraphicsService_GetRasterPageItem_VisioGraphicsServiceFaultFault_Fault Message

The fault WSDL message for the **GetRasterPageItem** WSDL operation.

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

3.1.4.4.2 Elements

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

Element	Description
GetRasterPageItem	The input data for the GetRasterPageItem WSDL operation.
GetRasterPageItemResponse	The result data for the GetRasterPageItem WSDL operation.

3.1.4.4.2.1 GetRasterPageItem

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

```
<xs:element name="GetRasterPageItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
        xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
        er" minOccurs="0" name="rasterPageItemRequestContract" nillable="true"
        type="tns:RasterPageItemRequest"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

rasterPageItemRequestContract: A **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)), that specifies the input data. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.4.2.2 GetRasterPageItemResponse

The **GetRasterPageItemResponse** element specifies the result data for the **GetRasterPageItem** WSDL operation.

```

<xs:element name="GetRasterPageItemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" minOccurs="0" name="GetRasterPageItemResult" nillable="true"
type="tns:RasterPageItemResponse"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GetRasterPageItemResult: A **RasterPageItemResponse** complex type (section [3.1.4.4.3.3](#)), that specifies the result data. There MUST be exactly one instance of this element, and it MUST NOT be null.

3.1.4.4.3 Complex Types

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

Complex type	Description
RasterPageItemRequest	The set of elements that specifies the input data for the GetRasterPageItem (section 3.1.4.4) WSDL operation.
RasterPageItemResponse	The set of elements that specifies the result data for the GetRasterPageItem WSDL operation.
RasterPageItemTag	The set of elements that specifies opaque information assigned by the protocol server to an item of a drawing page (section 1.3.2), as specified in section 3.1.1 , of a VSDX web drawing , when it is requested for the first time, and used on subsequent requests to determine whether the same item has changed since the initial request.

3.1.4.4.3.1 RasterPageItemRequest

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageItemRequest** complex type contains a set of elements that specifies the input data for the **GetRasterPageItem** (section [3.1.4.4](#)) WSDL operation.

```

<xs:complexType name="RasterPageItemRequest" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageItemTag"/>
    <xs:element minOccurs="0" name="FileUrl" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="ItemName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SequenceId" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

EntityTag: A **RasterPageItemTag** complex type (section [3.1.4.4.3.2](#)) that specifies opaque information about the requested item of the drawing page (section [1.3.2](#)), as specified in section [3.1.1](#), and used by the protocol server to determine if it has changed since it was initially requested.

There MUST be exactly one instance of this element. A null or empty value indicates an unconditional message as specified in section [3.1.1](#).

FileUrl: An **anyURI** that specifies the URL of the file in a document repository that contains the [web drawing](#) being requested. There MUST be exactly one instance of this element, and it MUST NOT be null.

ItemName: A string that specifies the name of the requested item in a drawing page, as specified in section [3.1.1](#). There MUST be exactly one instance of this element, and it MUST be one of the following values.

Value	Description
Image0	Specifies the requested item is a small image, in Portable Network Graphics (PNG) format as specified in [RFC2083]
Image1	Specifies the requested item is a medium-small image, in Portable Network Graphics (PNG) format as specified in [RFC2083]
Image2	Specifies the requested item is a medium-large image, in Portable Network Graphics (PNG) format as specified in [RFC2083]
Image3	Specifies the requested item is a large image, in Portable Network Graphics (PNG) format as specified in [RFC2083]
ShapeInfo	Specifies the requested item is shape information in XML format, as specified in section 2.2.9.1
Comments	Specifies the requested item is comments in XML format, as specified in section 2.2.9.2

SequenceId: A string that specifies the message sequence identifier obtained in the **IVisioGraphicsService_GetRasterPage_InputMessage** request (section [3.1.4.3.1.1](#)) WSDL message that initiated the retrieval of a drawing page, as specified in section [3.1](#).

3.1.4.4.3.2 RasterPageItemTag

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageItemTag** complex type contains the set of elements that specifies opaque information assigned by the protocol server to an item of a drawing page (section [1.3.2](#)), as specified in section [3.1.1](#), of a **VSDX web drawing**, when it is requested for the first time. The **RasterPageItemTag** is used on subsequent requests to determine whether the same item has changed since the initial request. A **RasterPageItemTag** is equal to the same element in **RasterPageItemRequest** (section [3.1.4.4.3.1](#)), if all its elements have default values.

```
<xs:complexType name="RasterPageItemTag" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FileETag" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

DataModeName: A string that specifies whether the drawing page was refreshed by the protocol server. There MUST be exactly one instance of this element, and it MUST be one of the following values.

Value	Description
Static	The drawing page was not updated and contains only data embedded in the corresponding web drawing. This is the default value.
Dynamic	The drawing page was updated with data retrieved from data providers, as specified in [MS-VSDX] section 2.2.10, or from the system, as specified in [MS-VSDX] section 2.2.11.

FileETag: A string that specifies an opaque identifier for the version of the web drawing. There MUST be exactly one instance of this element. The default value is null.

3.1.4.4.3.3 RasterPageItemResponse

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageItemResponse** contains the set of elements that specifies the response data for the **GetRasterPageItem** (section [3.1.4.4](#)) WSDL operation.

```
<xs:complexType name="RasterPageItemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageItemTag"/>
    <xs:element minOccurs="0" name="ItemData" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="ResponseCode" type="tns:RasterPageItemResponseCode"/>
  </xs:sequence>
</xs:complexType>
```

EntityTag: A **RasterPageItemTag** complex type (section [3.1.4.4.3.2](#)) that specifies opaque information about the requested drawing page (section [1.3.2](#)) item, as specified in section [3.1.1](#). There MUST be exactly one instance of this element, and it MUST NOT be null. If the value of **ResponseCode** is "NotModified", it MUST be equal to the value of the **EntityTag** element of the corresponding **RasterPageItemRequest** complex type (section [3.1.4.4.3.1](#)).

ItemData: A base64Binary that specifies the drawing page item data. There MUST be exactly one instance of this element. The value of **ItemData** depends on the value of the **ItemName** element of the corresponding **RasterPageItemRequest**, according to the following table.

Value of ItemName in RasterPageItemRequest	Value of ItemData
Image0	A small image of the rendered drawing page, in Portable Network Graphics (PNG) format as specified in [RFC2083] .
Image1	A medium-small image of the rendered drawing page, in Portable Network Graphics (PNG) format as specified in [RFC2083] .
Image2	A medium-large image of the rendered drawing page, in Portable Network Graphics (PNG) format as specified in [RFC2083] .
Image3	A large image of the rendered drawing page, in Portable Network Graphics (PNG) format as specified in [RFC2083] .
ShapeInfo	The shape information of the drawing page, in XML format, as specified in section 2.2.9.1 , and compressed using the GZIP format, as specified in [RFC1952] .

Value of ItemName in RasterPageItemRequest	Value of ItemData
Comments	The comments of the drawing page, in XML format, as specified in section 2.2.9.2 , and encoded using UTF-8, as specified in [RFC3629] .

ResponseCode: A **RasterPageItemResponseCode** value (section [3.1.4.4.4.1](#)), that specifies the type of the response. There MUST be exactly one instance of this element.

3.1.4.4.4 Simple Types

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

Simple type	Description
RasterPageItemResponseCode	The possible types of response codes returned as an element of a GetRasterPageItem (section 3.1.4.4) WSDL operation.

3.1.4.4.4.1 RasterPageItemResponseCode

Namespace:

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer>

The **RasterPageItemResponseCode** simple type specifies the possible types of response codes returned as an element of a **GetRasterPageItem** (section [3.1.4.4](#)) WSDL operation.

```
<xs:simpleType name="RasterPageItemResponseCode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotModified"/>
    <xs:enumeration value="OK"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
NotModified	Specifies that the requested drawing page (section 1.3.2) item, as specified in section 3.1.1 , has not changed since it was initially requested by the protocol client.
OK	Specifies that the response includes drawing page item data.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 SaveComments

The **SaveComments** operation saves a [comment](#) to a **VSDX web drawing** in a document repository, in the form of a **CommentEntry_Type** element as specified [\[MS-VSDX\]](#) section 2.3.4.2.9.<13>

The following is the WSDL port type specification of the **SaveComments** WSDL operation.

```
<wsdl:operation name="SaveComments" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveComments"
    message="tns2:IVisioGraphicsService_SaveComments_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveCommentsResponse"
    message="tns2:IVisioGraphicsService_SaveComments_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveCommentsVisioGraphicsServiceFaultFault"
    name="VisioGraphicsServiceFaultFault"
    message="tns2:IVisioGraphicsService_SaveComments_VisioGraphicsServiceFaultFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IVisioGraphicsService_SaveComments_InputMessage** request (section [3.1.4.5.1.1](#)) WSDL message, and the protocol server MUST respond with an **IVisioGraphicsService_SaveComments_OutputMessage** response (section [3.1.4.5.1.2](#)) WSDL message as follows:

1. If the protocol server determines that an error occurred during the protocol server operation, then the protocol server MUST respond with a **VisioGraphicsServiceFault** complex type (section [2.2.4.5](#)) SOAP fault with the **Error** field set to the correct **FaultCode** value (section [2.2.5.1](#)).
2. Otherwise, the protocol server MUST return a **SaveCommentsResponse** element (section [3.1.4.5.2.2](#)).

3.1.4.5.1 Messages

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

Message	Description
IVisioGraphicsService_SaveComments_InputMessage	The request WSDL message for the SaveComments WSDL operation.
IVisioGraphicsService_SaveComments_OutputMessage	The response WSDL message for the SaveComments WSDL

Message	Description
	operation.
IVisioGraphicsService_SaveComments_VisioGraphicsServiceFaultFault_FaultMessage	The fault WSDL message for the SaveComments WSDL operation.

3.1.4.5.1.1 IVisioGraphicsService_SaveComments_InputMessage

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

The SOAP action value is:

```
http://tempuri.org/IVisioGraphicsService/SaveComments
```

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

3.1.4.5.1.2 IVisioGraphicsService_SaveComments_OutputMessage

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

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

3.1.4.5.1.3

IVisioGraphicsService_SaveComments_VisioGraphicsServiceFaultFault_FaultMessage

The fault WSDL message for the **SaveComments** WSDL operation.

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

3.1.4.5.2 Elements

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

Element	Description
SaveComments	The input data for the SaveComments WSDL operation.
SaveCommentsResponse	The result data for the SaveComments WSDL operation.

3.1.4.5.2.1 SaveComments

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

```
<xs:element name="SaveComments" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="fileUrl" nillable="true" type="xs:anyURI"/>
      <xs:element minOccurs="0" name="commentData" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



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

fileUrl: An **anyURI** that specifies the URL of the **VSDX web drawing** file in a document repository. There **MUST** be exactly one instance of this element, and it **MUST NOT** be null.

commentData: A string attribute that specifies data about a **comment**, in XML format as specified in section [2.2.9.3](#), for a **shape** in the **VSDX** web drawing. There **MUST** be exactly one instance of this element, and it **MUST NOT** be null.

3.1.4.5.2 SaveCommentsResponse

The **SaveCommentsResponse** element specifies the result data for the **SaveComments** WSDL operation.

```
<xs:element name="SaveCommentsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="SaveCommentsResult" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

SaveCommentsResult: A string that specifies the result of the **SaveComments** operation (section [3.1.4.5](#)), in XML format as specified in section [2.2.9.4](#). There **MUST** be exactly one instance of this element, and it **MUST NOT** be null.

3.1.4.5.3 Complex Types

None.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.5 Timer Events

The **Recalculation Timeout** timer event cancels the request for the drawing page, as specified in section [1.3.2](#), with a **VisioGraphicsServiceFault**, as specified in section [2.2.4.5](#). The **Error** field of

VisioGraphicsServiceFault MUST be set to the "RecalcTimedOut" **FaultCode** value, as specified in section [2.2.5.1](#).

The **Message Sequence Timeout** timer event expires the entity cached on the protocol server that is used to match the sequence identifier of the message sequence initiated by an **IVisioGraphicsService_GetRasterPageItem_InputMessage** request (section [3.1.4.4.1.1](#)) WSDL message to retrieve a drawing page (section [1.3.2](#)) of a **VSDX** [web drawing](#) in raster format, as specified in section [3.1.<14>](#)

3.1.6 Other Local Events

None.

4 Protocol Examples

The following sections contain examples of this protocol's usage.

4.1 GetRasterDiagram

In this scenario, the protocol client calls the **GetRasterDiagram** method (section [3.1.4.1](#)) on a protocol server named "ExampleServer". The protocol server responds with a **GetRasterDiagramResponse** element (section [3.1.4.1.2.2](#)). In this case, the drawing page (section [1.3.2](#)) does not contain data providers to be implemented by the protocol client.

To request the raster formatted drawing page, the protocol client constructs the following WSDL message:

```
<s:Envelope>
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetRasterDiagram</a:Action>
    <a:MessageID>urn:uuid:891be72c-aaaf-473a-a4f8-82c3da217414</a:MessageID>
    <a:ReplyTo>
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1">https://ExampleServer:
32844/69e08a7b0e904d1a95de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security>.....</o:Security>
  </s:Header>
  <s:Body>
    <GetRasterDiagram>
      <rasterDiagramRequestContract>
        <b:DataSources i:nil="true"/>
        <b:DisableRefresh>true</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/BasicDiagram.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-20T17:42:20</b:TimeLastModified>
        <b:Resolution>1</b:Resolution>
      </rasterDiagramRequestContract>
    </GetRasterDiagram>
  </s:Body>
</s:Envelope>
```

The protocol server responds with the following:

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse</a:Act
ion>
  </s:Header>
  <s:Body>
    <GetRasterDiagramResponse xmlns="http://tempuri.org/">
      <GetRasterDiagramResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsSer
ver" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:CacheAge>60</d4p1:CacheAge>
        <d4p1:DataSources i:nil="true"></d4p1:DataSources>
        <d4p1:AreaMaps>
```


10g4DGxYEiOSOAhAtvnoWG6CgECowICzCi / 5pMCHhOT+noTuCdg59ybuRsTIFAjIMDUuPrqAgGPiQVDcKQCdwnYOQ8N01
UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVvXcIeEwsGJIjEnhIwM55aJiuQoDaqIAAM8qv+aSax8Skvt4
E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBpWm65N3M3JkCgRkCAqXH1
1QUChhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinGmTGrprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd89AwX
YUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBgalx9dYGax8SCITkigYcE7JyHhukqBAiMCGgwo/yaTwp4TEzq60
3gnoCdc2/mbykAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDrmVYfAYFRAGbn113xSwGNIu19vAvce7Jx7M3djAgRqBASyG1d
fXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIeE5P6eh04J2Dn3Ju5GxMgUCMgwnS4+uoCAY+JBUNyRAIPcdg5Dw3T
VQgQGBUQYEB5Nz8U8JiY1NebwD0BO+fezN2YAIeAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHxKS+3
gTuCdg592buxgQI1AgIMDWuvrpAwGniwZackBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQICpcf
XVBQIEEwuG5IgeHhKwcx4apqsQIDAQIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYmCRHJPCQgJ3z0DB
dhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKGRGBqXH11gYDHxIhOSKBhwTsnIeG6SoECIWKDCDj/JpPCnhMTOrr
TeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtwYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEBJgav
19dIOAxSWBIjKjgIQE756FhugoBAqMCAswov+aTah4Tk/p6E7gnYOfcm7kbEyBQIyDALj66gIBj4kFQ3JEAg8J2DkPdd
NVCBAYFRBGRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXChhMLBiSiXJ4SMD0eWiYrkKAWKiAADPKr/mkgMfEpL7
eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NJWU8Jib19SZwT8DOuTdzNyZaoEZAqK1x
9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJECk8JCANfPQM
F2FAIFRAQFm1F/zSQGPiU19vQncE7Bz7s3cjQkQBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKqQIjAoIMKP8mk8KeExM6u
tN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMYREJPCRg5z0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQEm
BpXX10g4DGxYEiOSOAhAtvnoWG6CgECowICzCi / 5pMCHhOT+noTuCdg59ybuRsTIFAjIMDUuPrqAgGPiQVDcKQCdwnYOQ8N
01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVvXcIeEwsGJIjEnhIwM55aJiuQoDaqIAAM8qv+aSax8Skv
t4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBpWm65N3M3JkCgRkCAqX
H11QUChhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinGmTGrprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd89A
wXYUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBgalx9dYGax8SCITkigYcE7JyHhukqBAiMCGgwo/yaTwp4TEzq
603gnoCdc2/mbykAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDrmVYfAYFRAGbn113xSwGNIu19vAvce7Jx7M3djAgRqBASyG
1dfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIeE5P6eh04J2Dn3Ju5GxMgUCMgwnS4+uoCAY+JBUNyRAIPcdg5Dw
3TVQgQGBUQYEB5Nz8U8JiY1NebwD0BO+fezN2YAIeAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHxKS
+3gTuCdg592buxgQI1AgIMDWuvrpAwGniwZackBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQICpcf
XVBQIEEwuG5IgeHhKwcx4apqsQIDAQIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYmCRHJPCQgJ3z0DB
dhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKGRGBqXH11gYDHxIhOSKBhwTsnIeG6SoECIWKDCDj/JpPCnhMTOrr
TeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtwYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEBJg
av19dIOAxSWBIjKjgIQE756FhugoBAqMCAswov+aTah4Tk/p6E7gnYOfcm7kbEyBQIyDALj66gIBj4kFQ3JEAg8J2DkP
ddNVCBAYFRBGRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXChhMLBiSiXJ4SMD0eWiYrkKAWKiAADPKr/mkgMfEp
L7eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NJWU8Jib19SZwT8DOuTdzNyZaoEZAqK
1x9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJECk8JCANfP
QMF2FAIFRAQFm1F/zSQGPiU19vQncE7Bz7s3cjQkQBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKqQIjAoIMKP8mk8KeExM
6utN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMYREJPCRg5z0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQEm
BpXX10g4DGxYEiOSOAhAtvnoWG6CgECowICzCi / 5pMCHhOT+noTuCdg59ybuRsTIFAjIMDUuPrqAgGPiQVDcKQCdwnYOQ
8N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVvXcIeEwsGJIjEnhIwM55aJiuQoDaqIAAM8qv+aSax8S
kvt4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBpWm65N3M3JkCgRkCA
qXH11QUChhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinGmTGrprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkICd8
9AwXYUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBgalx9dYGax8SCITkigYcE7JyHhukqBAiMCGgwo/yaTwp4TEz
q603gnoCdc2/mbykAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDrmVYfAYFRAGbn113xSwGNIu19vAvce7Jx7M3djAgRqBAS
Yg1dfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIeE5P6eh04J2Dn3Ju5GxMgUCMgwnS4+uoCAY+JBUNyRAIPcdg5
Dw3TVQgQGBUQYEB5Nz8U8JiY1NebwD0BO+fezN2YAIeAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pIDHx
KS+3gTuCdg592buxgQI1AgIMDWuvrpAwGniwZackBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBGQICpcf
XVBQIEEwuG5IgeHhKwcx4apqsQIDAQIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYmCRHJPCQgJ3z0DB
dhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKGRGBqXH11gYDHxIhOSKBhwTsnIeG6SoECIWKDCDj/JpPCnhMTOrr
TeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtwYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGoEBJg
av19dIOAxSWBIjKjgIQE756FhugoBAqMCAswov+aTah4Tk/p6E7gnYOfcm7kbEyBQIyDALj66gIBj4kFQ3JEAg8J2DkP
ddNVCBAYFRBGRvk1nxTwmJjU15vAPQE7597M3ZgAgRoBaabG1VcXChhMLBiSiXJ4SMD0eWiYrkKAWKiAADPKr/mkgMfEp
L7eBO4J2Dn3Zu7GBAJUCAGwNa6+ukDAY2LBkByRwEMCds5Dw3QVAgRGBQSYUX7NJWU8Jib19SZwT8DOuTdzNyZaoEZAqK
1x9dUFAh4TC4bkiAQeErBzHhmqxAgMCogwIzyaz4p4DEXqa83gXsCds69mbsxAQI1AgJMjauvLhDwmFgwJECk8JCANfP
QMF2FAIFRAQFm1F/zSQGPiU19vQncE7Bz7s3cjQkQBEQYgpcfXWBGMfEgiE5IoGHBOych4bpKqQIjAoIMKP8mk8KeE
xM6utN4J6AnXNv5m5MgECNgABT4+qrCwQ8JhYMYREJPCRg5z0TFchQGBUQIAZ5dd8UsBjY1JfbwL3BOycezN3YwIEagQ
EmBpXX10g4DGxYEiOSOAhAtvnoWG6CgECowICzCi / 5pMCHhOT+noTuCdg59ybuRsTIFAjIMDUuPrqAgGPiQVDcKQCdwnY
OQ8N01UIEBgVEGBG+TWfFPCYmNTXm8A9ATvn3szdmACBGgEBpsbVvXcIeEwsGJIjEnhIwM55aJiuQoDaqIAAM8qv+aSax
8Skvt4E7gnYOfdm7sYECNQICDA1rr66QMBjYsGQHJHAQwJ2zkPddBUCBEYFBjHrfs0nBTwmJvX1JnBpWm65N3M3JkCgRk
CAqXH11QUChhMLhuSIBB4SsHMeGqarECAwKiDAjPjRPinGmTGrprzeBewJ2zr2ZuzEBAjUCAkyNq68uEPCYWDaKRYTwkIC
d89AwXYUAgVEBAWAUX/NJAY+JSX29CdwTshPuzdyNCRCoERBgalx9dYGax8SCITkigYcE7JyHhukqBAiMCGgwo/yaTwp4
TEzq603gnoCdc2/mbykAQI2AAFPj6qsLBDwmFgzJEQk8JGDnPDrmVYfAYFRAGbn113xSwGNIu19vAvce7Jx7M3djAgRqB
ASyG1dfXSDgMbFgSI5I4CEBO+ehYboKAQKjAgLMKL/mkwIeE5P6eh04J2Dn3Ju5GxMgUCMgwnS4+uoCAY+JBUNyRAIPcd
g5Dw3TVQgQGBUQYEB5Nz8U8JiY1NebwD0BO+fezN2YAIeAQGmxtVXFwh4TCwYkiMSeEjAznlomK5CgMCogAAzyq/5pID
HxKS+3gTuCdg592buxgQI1AgIMDWuvrpAwGniwZackBDAnbOQ8N0FQIERgUEmFF+zScFPCYm9fUmce/Azrk3czcmQKBG
QICpcfXVBQIEEwuG5IgeHhKwcx4apqsQIDAQIMCM8ms+KeAxMamvN4F7AnbOvZm7MQECNQICTI2rry4Q8JhYmCRHJPCQg
J3z0DBdhQCBUQEBZpRf80kbj41Jfb0J3BOWc+7N3I0JEKGRGBqXH11gYDHxIhOSKBhwTsnIeG6SoECIWKDCDj/JpPCn
hMTOrrTeCegJ1zb+ZuTIBAJYAAU+PqqwsEPCYWDmKRCtwYoc8NEXXIUBgVEcAGeXXfFLAY2JSX28C9wTsnHszd2MCBGo

IAAAQIEGgUEmEzsrQgQIECAAAECBAGQYQAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAGQI ZAICTOanmgABAG
QIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAAQIECBAGQIBA04AA04itFQECBAGQIECAAAECmYAAk/mpJkC
AAECBAGQIECgUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAAQIECBAGQIBA JIDA ZH6q
CRAGQIAAAQIECBBoFBBgGrG1IkCAAECBAGQIEAGExBgmj/VBAGQIECAAAECBAG0Cggwj dhaESBAGAABAGQIECCQCgwm
Z9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBASyZ81AQIECBAGQIAAAQKNAgJMI7ZWBAGQIECAAAECBAhKAg
JM5qeaAAECBAGQIECAAI FGAQGMevsrAgQIECBAGAABAGQYQAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIAA
QKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAI FQMIDJ/FQTIECAAAECBAGQINAoIMA0YmtFgAABAGQIECBA
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AAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDBASbzU02AAECBAGQIECAQKOAANOIrRUBAGQ
IECBAGAABApMAAJp5qSZAgAABAGQIECBAoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WA
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AGQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAI FQMIDJ/FQTIECA
AAECBAGQINAoIMA0YmtFgAABAGQIECBAGeAmIMBkf qoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAYP9UE
CBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBoFBjHGbK0IECBAGAABAGQIEMgEBJjMTz
UBAGQIECBAGAABAG0CAkwt1lYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDBASb
zU02AAECBAGQIECAQKOAANOIrRUBAGQIECBAGAABApMAAJp5qSZAgAABAGQIECBAoFFAgGnE1oAAQIECBAGQIAAGUxAg
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BMQYDI/1QQIECBAGAABAGQINAoIMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEzsrQgQIECAAAECB
AGQYQAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAGQI ZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAGQIA
AAQIEMgEBJvNTTYAAAQIECBAGQIBA04AA04itFQECBAGQIECAAAECmYAAk/mpJkCAAECBAGQIECgUUAacTWigABAGQIE
CBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAAQIECBAGQIBA JIDA ZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAA
ECBAGQIEAGExBgmj/VBAGQIECAAAECBAG0Cggwj dhaESBAGAABAGQIECCQCgwmZ9qAgQIECBAGAABAGQaBQSYRmytCB
AgQIAAAQIECBDBASyZ81AQIECBAGQIAAAQKNAgJMI7ZWBAGQIECAAAECBAhKAgJM5qeaAAECBAGQIECAAI FGAQGMevsr
AgQIECBAGAABAGQYQAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIB
pxNaKAAECBAGQIECAAI FQMIDJ/FQTIECAAAECBAGQINAoIMA0YmtFgAABAGQIECBAGeAmIMBkf qoJECBAGAABAGQIEGgUE
GAasbUiQIAAAQIECBAGQCATEGAYP9UECBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECB
BoFBjHGbK0IECBAGAABAGQIEMgEBJjMTzUBAGQIECBAGAABAG0CAkwt1lYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIA
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CBAoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAECBAGQIECAQCYgWR+qgkQIECA
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AgQIAAAQIEGgUEmEzsrQgQIECAAAECBAGQYQAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAGQI ZAICTOanmg
ABAGQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAAQIECBAGQIBA04AA04itFQECBAGQIECAAAECmYAAk/mp
JkCAAECBAGQIECgUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAAQIECBAGQIBA JIDA Z
H6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAECBAGQIEAGExBgmj/VBAGQIECAAAECBAG0Cggwj dhaESBAGAABAGQIECCQC
gwmZ9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBASyZ81AQIECBAGQIAAAQKNAgJMI7ZWBAGQIECAAAECBA
hKAgJM5qeaAAECBAGQIECAAI FGAQGMevsrAgQIECBAGAABAGQYQAQEm81NNgAABAGQIECBAGECjgADTiK0VAQIECBAGQIA
AQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAI FQMIDJ/FQTIECAAAECBAGQINAoIMA0YmtFgAABAGQIE
CBAGeAmIMBkf qoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAYP9UECBAGQIAAAQIECDQKCDN2FoRIECA
AAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBoFBjHGbK0IECBAGAABAGQIEMgEBJjMTzUBAGQIECBAGAABAG0CAkwt1lYEC
BAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDBASbzU02AAECBAGQIECAQKOAANOIrRUB
AgQIECBAGAABApMAAJp5qSZAgAABAGQIECBAoFFAgGnE1oAAQIECBAGQIAAGUxAgMn8VBMgQIAAAQIECBAG0CggwDRia
0WAAECBAGQIECAQCYgWR+qgkQIECAAAECBAGQaBQQYBqxtSJAgaAABAGQIECBAIBMQYDI/1QQIECBAGAABAGQINAoIMI
3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEzsrQgQIECAAAECBAGQYQAQEmMxPNQECBAGQIECAAAECjQ
ICTCO2VgQIECBAGAABAGQI ZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAGQIAAAQIEMgEBJvNTTYAAAQIECBAGQIBA
o4AA04itFQECBAGQIECAAAECmYAAk/mpJkCAAECBAGQIECgUUAacTWigABAGQIECBAGACBTECAyfxUEyBAGAABAGQIE
CDQKCDANGJrRYAAAQIECBAGQIBA JIDA ZH6qCRAGQIAAAQIECBBoFBBgGrG1IkCAAECBAGQIEAGExBgmj/VBAGQIECAAA
ECBAG0Cggwj dhaESBAGAABAGQIECCQCgwmZ9qAgQIECBAGAABAGQaBQSYRmytCBAGQIAAAQIECBDBASyZ81AQIECBAG
QIAAAQKNAgJMI7ZWBAGQIECAAAECBAhKAgJM5qeaAAECBAGQIECAAI FGAQGMevsrAgQIECBAGAABAGQYQAQEm81NNgAAB
AgQIECBAGECjgADTiK0VAQIECBAGQIAAAQKZgACT+akmQIAAAQIECBAGQKBRQIBpxNaKAAECBAGQIECAAI FQMIDJ/FQT
IECAAAECBAGQINAoIMA0YmtFgAABAGQIECBAGeAmIMBkf qoJECBAGAABAGQIEGgUEGAasbUiQIAAAQIECBAGQCATEGAYP
9UECBAGQIAAAQIECDQKCDN2FoRIECAAAECBAGQIJAJCDCZn2oCBAGQIECAAAECBBoFBjHGbK0IECBAGAABAGQIEMgEBJ
jMTzUBAGQIECBAGAABAG0CAkwt1lYECBAGQIAAAQIECGQCAkzmp5oAAQIECBAGQIAAGUYBAaYRWysCBAGQIECAAAECBDB
ASbzU02AAECBAGQIECAQKOAANOIrRUBAGQIECBAGAABApMAAJp5qSZAgAABAGQIECBAoFFAgGnE1oAAQIECBAGQIAAG
UxAgMn8VBMgQIAAAQIECBAG0CggwDRia0WAAECBAGQIECAQCYgWR+qgkQIECAAAECBAGQaBQQYBqxtSJAgaAABAGQIE
CBAIBMQYDI/1QQIECBAGAABAGQINAoIMI3YWhEgQIAAAQIECBAGkAkIMJmfagIECBAGQIAAAQIEGgUEmEzsrQgQIECAAA
ECBAGQYQAQEmMxPNQECBAGQIECAAAECjQICTCO2VgQIECBAGAABAGQI ZAICTOanmgABAGQIECBAGACBRgEBphFbKwIECBAG
QIAAAQIEMgEBJvNTTYAAAQIECBAGQIBA04AA04itFQECBAGQIECAAAECmYAAk/mpJkCAAECBAGQIECgUUAacTWigABA
gQIECBAGACBTECAyfxUEyBAGAABAGQIECDQKCDANGJrRYAAAQIECBAGQIBA JIDA ZH6qCRAGQIAAAQIECBBoFBBgGrG1Ik
CAAECBAGQIEAGExBgmj/VBAGQIECAAAECBAG0Cggwj dhaESBAGAABAGQIECCQCgwmZ9qAgQIECBAGAABAGQaBQSYRmy


```

        <ShapeInfo Name="_1" DisplayName="Sheet.1"
Layout="\{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:\{&quot;x&quot;:191,&quot;y&quot;
;:191,&quot;width&quot;:287,&quot;height&quot;:287\}\}" />
    </Page>
    </d4pl:ShapeInfo>
</GetRasterDiagramResult>
</GetRasterDiagramResponse>
</s:Body>
</s:Envelope>

```

4.2 GetVectorDiagram

In this scenario, the protocol client calls the **GetVectorDiagram** method (section [3.1.4.2](#)) on a protocol server named "ExampleServer". The protocol server responds with a **GetVectorDiagramResponse** element (section [3.1.4.2.2.2](#)). In this case the drawing page (section [1.3.2](#)) does not contain data providers to be implemented by the protocol client.

To request the vector formatted drawing page, the protocol client constructs the following WSDL message:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVe
ctorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:d6266798-5744-42ed-
9753-cc263fda28ae</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
    <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95
de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secext-1.0.xsd">.....</o:Security>
  </s:Header>
  <s:Body>
    <GetVectorDiagram xmlns="http://tempuri.org/">
      <vectorDiagramRequestContract
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:DataSources i:nil="true"></b:DataSources>
        <b:DisableRefresh>true</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/BasicDiagram.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-20T17:42:20</b:TimeLastModified>
      </vectorDiagramRequestContract>
    </GetVectorDiagram>
  </s:Body>
</s:Envelope>

```

The protocol server responds with the following:

```

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>

```

```

    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Act
ion>
  </s:Header>
  <s:Body>
    <GetVectorDiagramResponse xmlns="http://tempuri.org/">
      <GetVectorDiagramResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsSer
ver" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:CacheAge>60</d4p1:CacheAge>
        <d4p1:DataSources i:nil="true"></d4p1:DataSources>
        <d4p1:OutputPage>
          <d4p1:Resources></d4p1:Resources>
          <d4p1:ShapeInfo>
            <Page Name="Page-1" Zoom="-1.000000" OffsetX="407.142857" OffsetY="528.857143"
DefaultUnitsText="50" DefaultUnitsAngle="81" DefaultUnitsDuration="44" DefaultUnitsPage="73"
DocumentID="1360559653">
              <Pages>
                <Page Name="Page-1" />
              </Pages>
              <ShapeInfo Name="_1" DisplayName="Sheet.1"
Layout="{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:{&quot;x&quot;:191,&quot;y&quot;
:191,&quot;width&quot;:287,&quot;height&quot;:287}}"/>
            </d4p1:ShapeInfo>
            <d4p1:Xaml>
              <Canvas Height="1056" Name="Workspace" Width="816"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation">
                <!-- Page -->
                <Canvas Width="816" Height="1056" Name="D">
                  <Canvas.Background>
                    <SolidColorBrush Color="#FFFFFFFF"/>
                  </Canvas.Background>
                  <Canvas
Tag="{&#34;type&#34;:&#34;2D&#34;,&#34;bounds&#34;:{&#34;x&#34;:192,&#34;y&#34;:192,&#34;wi
dth&#34;:285,&#34;height&#34;:285}}"/>
                    Name="_1" RenderTransform="1, 0, 0, 1, 192, -579">
                      <Rectangle Canvas.Left="-0.5" Canvas.Top="770.5" Height="286"
Name="_1_G0_P0" Width="286" StrokeThickness="1"
StrokeDashCap="Round" StrokeEndLineCap="Round"
StrokeLineJoin="Round" StrokeStartLineCap="Round">
                        <Rectangle.Stroke>
                          <SolidColorBrush Color="#FF000000"/>
                        </Rectangle.Stroke>
                        <Rectangle.Fill>
                          <SolidColorBrush Color="#FFFFFFFF"/>
                        </Rectangle.Fill>
                      </Rectangle>
                    </Canvas>
                  </Canvas>
                </Canvas>
              </d4p1:Xaml>
            </d4p1:OutputPage>
          </GetVectorDiagramResult>
        </GetVectorDiagramResponse>
      </s:Body>
    </s:Envelope>

```

4.3 GetVectorDiagram with AddonDataSource

In this scenario, the protocol client calls the **GetVectorDiagram** method (section [3.1.4.2](#)) on a protocol server named "ExampleServer". In this case the protocol client is requesting a drawing page (section [1.3.2](#)) in a [web drawing](#) that is linked to data with a data provider to be implemented by the protocol client.

Initially the protocol client constructs the following WSDL message:

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVectorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:cd490d30-778d-447c-91f3-c0b0ea0e5de4</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
    <a:To s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">.....</o:Security>
  </s:Header>
  <s:Body>
    <GetVectorDiagram xmlns="http://tempuri.org/">
      <vectorDiagramRequestContract
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:DataSources i:nil="true"></b:DataSources>
        <b:DisableRefresh>false</b:DisableRefresh>
        <b:FileUri>http://ExampleServer/Data_Connected.vdw</b:FileUri>
        <b:PageNumber>1</b:PageNumber>
        <b:TimeLastModified>2009-05-22T16:24:27</b:TimeLastModified>
      </vectorDiagramRequestContract>
    </GetVectorDiagram>
  </s:Body>
</s:Envelope>
```

The protocol server responds with the following **GetVectorDiagramResponse** element (section [3.1.4.2.2.2](#)):

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Action>
  </s:Header>
  <s:Body>
    <GetVectorDiagramResponse xmlns="http://tempuri.org/">
      <GetVectorDiagramResult
xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:CacheAge>0</d4p1:CacheAge>
        <d4p1:DataSources>
          <d4p1:AddonDataSource>
```

```

        <d4p1:ConnectionString>datamodule=Microsoft.Office.Visio.Server.EcsDataHandler,
Microsoft.Office.Visio.Server, Version=14.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce11e9429c;provider=Microsoft.ACE.OLEDB.12.0;user id=Admin;data
source=http://ExampleServer/sampledataba.xlsx;mode=Read;extended
properties='HDR=YES;imex=1;maxscanrows=0;excel 12.0;';jet oledb:system database='';jet
oledb:registry path='';jet oledb:engine type=37;jet oledb:database locking mode=0;jet
oledb:global partial bulk ops=2;jet oledb:global bulk transactions=1;jet oledb:new database
password='';jet oledb:create system database=False;jet oledb:encrypt database=False;jet
oledb:don't copy locale on compact=False;jet oledb:compact without replica repair=False;jet
oledb:sfp=False;jet oledb:support complex data=False</d4p1:ConnectionString>
    <d4p1:Data>
        <xs:schema id="NewDataSet" xmlns="" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
            <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="">
                <xs:complexType>
                    <xs:choice minOccurs="0" maxOccurs="unbounded">
                        <xs:element name="Table1" msdata:Locale="">
                            <xs:complexType>
                                <xs:sequence>
                                    <xs:element name="ID" type="xs:string"
minOccurs="0"></xs:element>
                                    <xs:element name="FN" type="xs:string"
minOccurs="0"></xs:element>
                                    <xs:element name="LN" type="xs:string"
minOccurs="0"></xs:element>
                                </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                    </xs:choice>
                </xs:complexType>
            </xs:element>
            <diffgr:diffgram xmlns:msdata="urn:schemas-microsoft-com:xml-msdata"
xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1"></diffgr:diffgram>
        </d4p1:Data>
        <d4p1:Id>1</d4p1:Id>
        <d4p1:QueryString>SheetName=Sheet1; RangeName=A1:C5;</d4p1:QueryString>
    </d4p1:AddonDataSource>
</d4p1:DataSources>
<d4p1:OutputPage i:nil="true"></d4p1:OutputPage>
</GetVectorDiagramResult>
</GetVectorDiagramResponse>
</s:Body>
</s:Envelope>

```

To request the vector formatted drawing page (section [1.3.2](#)) with an **AddonDataSource** complex type (section [2.2.4.1](#)), the protocol client now constructs the following WSDL message:

```

<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope">
  <s:Header>
    <a:Action s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">http://tempuri.org/IVisioGraphicsService/GetVe
ctorDiagram</a:Action>
    <a:MessageID xmlns:a="http://www.w3.org/2005/08/addressing">urn:uuid:c22e255b-6923-496d-
a3f5-a2f3c45f4bbd</a:MessageID>
    <a:ReplyTo xmlns:a="http://www.w3.org/2005/08/addressing">
      <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>
    </a:ReplyTo>
  </s:Header>

```

```

    <a:To s:mustUnderstand="1"
xmlns:a="http://www.w3.org/2005/08/addressing">https://ExampleServer:32844/69e08a7b0e904d1a95
de6dbf31c51529/VisioGraphicsService.svc/secure</a:To>
    <o:Security xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
secext-1.0.xsd">.....</o:Security>
</s:Header>
<s:Body>
    <GetVectorDiagram xmlns="http://tempuri.org/">
    <vectorDiagramRequest
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
    <b:DataSources>
    <b:AddonDataSource>
    <b:ConnectionString>datamodule=Microsoft.Office.Visio.Server.EcsDataHandler,
Microsoft.Office.Visio.Server, Version=14.0.0.0, Culture=neutral,
PublicKeyToken=71e9bce111e9429c;provider=Microsoft.ACE.OLEDB.12.0;user id=Admin;data
source=http://ExampleServer/sampledata.xlsx;mode=Read;extended
properties='HDR=YES;imex=1;maxscanrows=0;excel 12.0;';jet oledb:system database='';jet
oledb:registry path='';jet oledb:engine type=37;jet oledb:database locking mode=0;jet
oledb:global partial bulk ops=2;jet oledb:global bulk transactions=1;jet oledb:new database
password='';jet oledb:create system database=False;jet oledb:encrypt database=False;jet
oledb:don't copy locale on compact=False;jet oledb:compact without replica repair=False;jet
oledb:sfp=False;jet oledb:support complex data=False</b:ConnectionString>
    <b>Data>
    <xs:schema id="NewDataSet" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns=""
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
    <xs:element name="NewDataSet" msdata:IsDataSet="true" msdata:Locale="">
    <xs:complexType>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element name="Table1">
    <xs:complexType>
    <xs:sequence>
    <xs:element name="ID" type="xs:double"
minOccurs="0"></xs:element>
    <xs:element name="FN" type="xs:string"
minOccurs="0"></xs:element>
    <xs:element name="LN" type="xs:string"
minOccurs="0"></xs:element>
    </xs:sequence>
    </xs:complexType>
    </xs:element>
    </xs:choice>
    </xs:complexType>
    </xs:element>
    </xs:schema>
    <diffgr:diffgram xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
    <NewDataSet xmlns="">
    <Table1 diffgr:id="Table11" msdata:rowOrder="0"
diffgr:hasChanges="inserted">
    <ID>1</ID>
    <FN>Happy</FN>
    <LN>kitty</LN>
    </Table1>
    <Table1 diffgr:id="Table12" msdata:rowOrder="1"
diffgr:hasChanges="inserted">
    <ID>2</ID>
    <FN>Silly</FN>
    <LN>dog</LN>
    </Table1>

```

```

                <Table1 diffgr:id="Table13" msdata:rowOrder="2"
diffgr:hasChanges="inserted">
                    <ID>3</ID>
                    <FN>Order</FN>
                    <LN>Id</LN>
                </Table1>
                <Table1 diffgr:id="Table14" msdata:rowOrder="3"
diffgr:hasChanges="inserted">
                    <ID>4</ID>
                    <FN>green</FN>
                    <LN>turtle</LN>
                </Table1>
            </NewDataSet>
        </diffgr:diffgram>
    </b:Data>
    <b:Id>1</b:Id>
    <b:QueryString>SheetName=Sheet1; RangeName=A1:C5;</b:QueryString>
</b:AddonDataSource>
</b>DataSources>
<b:DisableRefresh>>false</b:DisableRefresh>
<b:FileUri>http://ExampleServer/Data_Connected.vdw</b:FileUri>
<b:PageNumber>1</b:PageNumber>
<b:TimeLastModified>2009-05-22T16:24:27</b:TimeLastModified>
</vectorDiagramRequest>
</GetVectorDiagram>
</s:Body>
</s:Envelope>

```

Finally, the protocol server responds with the following **GetVectorDiagramResponse** element (section [3.1.4.2.2.2](#)):

```

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing"
xmlns:s="http://www.w3.org/2003/05/soap-envelope">
    <s:Header>
        <a:Action
s:mustUnderstand="1">http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse</a:Action>
    </s:Header>
    <s:Body>
        <GetVectorDiagramResponse xmlns="http://tempuri.org/">
            <GetVectorDiagramResult
xmlns:d4pl="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
                <d4pl:CacheAge>5</d4pl:CacheAge>
                <d4pl>DataSources i:nil="true"></d4pl>DataSources>

                <d4pl:OutputPage>
                    <d4pl:Resources></d4pl:Resources>
                    <d4pl:ShapeInfo>
                        <Page Name="Page-1" Zoom="1.192093" OffsetX="346.714286" OffsetY="769.714286"
DefaultUnitsText="50" DefaultUnitsAngle="81" DefaultUnitsDuration="44" DefaultUnitsPage="73"
Conflict="0" DocumentID="-1092095043">
                            <Pages>
                                <Page Name="Page-1" />
                            </Pages>
                            <ShapeInfo Name="_1" DisplayName="Tagged process"
Layout="\{&quot;type&quot;:&quot;2D&quot;,&quot;bounds&quot;:\{&quot;x&quot;:132,&quot;y&quot;:276,&quot;width&quot;:222,&quot;height&quot;:75\}\}">
                                <ShapeDataItems>

```

```

        <ShapeData Name="ID" FormattedValue="1" Value="1" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="1" />
        <ShapeData Name="FN" FormattedValue="Happy" Value="Happy" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="1" />
        <ShapeData Name="LN" FormattedValue="kitty" Value="kitty" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="1" />
    </ShapeDataItems>
</ShapeInfo>
<ShapeInfo Name="_9" DisplayName="Tagged process.9"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:96,&quot;y&quot;;
:456,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
    <ShapeDataItems>
        <ShapeData Name="ID" FormattedValue="2" Value="2" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="2" />
        <ShapeData Name="FN" FormattedValue="Silly" Value="Silly" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="2" />
        <ShapeData Name="LN" FormattedValue="dog" Value="dog" Format="{0}" Type="0"
LangID="1033" UnitLabel="0" Unit="105" BindingID="2" />
    </ShapeDataItems>
</ShapeInfo>
<ShapeInfo Name="_17" DisplayName="Tagged process.17"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:120,&quot;y&quot;;
:648,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
    <ShapeDataItems>
        <ShapeData Name="ID" FormattedValue="3" Value="3" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="3" />
        <ShapeData Name="FN" FormattedValue="Order " Value="Order" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="3" />
        <ShapeData Name="LN" FormattedValue="Id" Value="Id" Format="{0}" Type="0"
LangID="1033" UnitLabel="0" Unit="105" BindingID="3" />
    </ShapeDataItems>
</ShapeInfo>
<ShapeInfo Name="_25" DisplayName="Tagged process.25"
Layout="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:480,&quot;y&quot;;
:492,&quot;width&quot;;:222,&quot;height&quot;;:75\}\}">
    <ShapeDataItems>
        <ShapeData Name="ID" FormattedValue="4" Value="4" Format="{0:0.####} {1}"
Type="2" LangID="1033" UnitLabel="0" Unit="32" BindingID="4" />
        <ShapeData Name="FN" FormattedValue="green" Value="green" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="4" />
        <ShapeData Name="LN" FormattedValue="turtle" Value="turtle" Format="{0}"
Type="0" LangID="1033" UnitLabel="0" Unit="105" BindingID="4" />
    </ShapeDataItems>
</ShapeInfo>
</Page>
</d4pl:ShapeInfo>
<d4pl:Xaml>
    <Canvas Height="1056" Name="Workspace" Width="816"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation">
        <!-- Page -->
        <Canvas Width="816" Height="1056" Name="D">
            <Canvas.Background>
                <SolidColorBrush Color="#FFFFFFFF" />
            </Canvas.Background>
            <Canvas
Tag="\{\&quot;type&quot;;:&quot;2D&quot;;,&quot;bounds&quot;:\{\&quot;x&quot;;:132,&quot;y&quot;;:2
76,&quot;width&quot;;:96,&quot;height&quot;;:72\}\}" Name="_1" RenderTransform="1, 0, 0, 1,
132, -708">
                <Canvas Name="_2">
                    <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">

```

```

        <Path Name="S_2_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
        <Path.Stroke>
        <SolidColorBrush Color="#7FDEDEDE" />
        </Path.Stroke>
        <Path.Fill>
        <SolidColorBrush Color="#7FDEDEDE" />
        </Path.Fill>
    </Path>
</Canvas>
    <Path Name="_2_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#00404040" />
    </Path.Stroke>
    <Path.Fill>
    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
    <LinearGradientBrush.GradientStops>
    <GradientStop Color="#00FF00FF" />
    <GradientStop Color="#00FF00FF" Offset="1" />
    </LinearGradientBrush.GradientStops>
    </LinearGradientBrush>
    </Path.Fill>
</Path>
</Canvas>
<Canvas Name="_3" RenderTransform="1, 0, 0, 1, 72, 0">
    <Path Name="_3_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
    <SolidColorBrush Color="#FF000000" />
    </Path.Fill>
</Path>
</Canvas>
<Canvas Name="_5">
    <Canvas.RenderTransform>
    <MatrixTransform Matrix="1,0,0,1,102,-16.65076" />
    </Canvas.RenderTransform>
    <Path Name="_5_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z"></Path>
    <Path Name="_5_G1_P1" Data="M1.92 1054.08 L118.08 1054.08"></Path>
    <Path Name="_5_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z">
    <Path.Stroke>
    <SolidColorBrush Opacity="0" Color="#FF404040" />
    </Path.Stroke>
</Path>
    <Path Name="_5_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
    <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
</Path>

```



```

        <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.201553942620754" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0,
96, 1.92, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_5_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
</TextBlock>
</Canvas>
<Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
    <Glyphs.Fill>
        <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
</Glyphs>
</Canvas>
<Canvas Name="_6">
    <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.201553942620754" Visibility="Collapsed" Width="1.0386175337222"
RenderTransform="96, 0, 0, 96, 18.372717, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_6_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">not kitty </Run>
</TextBlock>
</Canvas>
<Canvas.RenderTransform>
    <MatrixTransform Matrix="96,0,0,96,18.3744,1038.571" />
</Canvas.RenderTransform>
<Glyphs UnicodeString="kitty" OriginX="0.825711078964174"
OriginY="0.111110001802444" FontUri="CommonFonts/4C1AABE5-BA71-4F2C-8263-66731F995C4B.odttf"
FontRenderingEmSize="0.111110001802444" Fill="#FF000000" Visibility="Visible" />
</Glyphs>
</Canvas>
</Canvas>
<Canvas Name="_7">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1,0,0,1,102,-36" />
    </Canvas.RenderTransform>
    <Path Name="_7_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z"></Path>
    <Path Name="_7_G1_P1" Data="M1.92 1054.08 L118.08 1054.08"></Path>
    <Path Name="_7_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.57080078125 L1.92 1038.57080078125 L1.92 1054.08 Z">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_7_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
</Canvas>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.201553942620754" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0,
96, 1.92, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_7_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
</TextBlock>

```

```

        <Canvas>
          <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
            <Glyphs.Fill>
              <SolidColorBrush Color="#FF000000" />
            </Glyphs.Fill>
          </Glyphs>
        </Canvas>
        <Canvas Name="_8">
          <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.201553942620754" Visibility="Collapsed" Width="1.0342764082339"
RenderTransform="96, 0, 0, 96, 18.789465, 1038.608582" TextWrapping="Wrap">
          <Run Name="txt_8_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">not Happy </Run>
        </TextBlock>
        <Canvas>
          <Canvas.RenderTransform>
            <MatrixTransform Matrix="96,0,0,96,18.7872,1038.571" />
          </Canvas.RenderTransform>
          <Glyphs UnicodeString="Happy" OriginX="0.787411080680788"
OriginY="0.111110001802444" FontUri="CommonFonts/4C1AABE5-BA71-4F2C-8263-66731F995C4B.odttf"
FontRenderingEmSize="0.111110001802444" Fill="#FF000000" Visibility="Visible" />
        </Canvas>
      </Canvas>
    </Canvas>
    <Canvas Name="_4">
      <Path Name="_4_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
        <Path.Stroke>
          <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
        <Path.Fill>
          <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
            <LinearGradientBrush.GradientStops>
              <GradientStop Color="#FFFAFAFA" />
              <GradientStop Color="#FFFFFFF" Offset="1" />
            </LinearGradientBrush.GradientStops>
          </LinearGradientBrush>
        </Path.Fill>
      </Path>
    </Canvas>
  </Canvas>
  <Canvas
Tag="\{&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;\{&quot;x&quot;;:96,&quot;y&quot;;:45
6,&quot;width&quot;;:96,&quot;height&quot;;:72\}\}" Name="_9" RenderTransform="1, 0, 0, 1, 96,
-528">
    <Canvas Name="_10">
      <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
        <Path Name="S_10_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
          <Path.Stroke>
            <SolidColorBrush Color="#7FDEDEDE" />
          </Path.Stroke>
          <Path.Fill>
            <SolidColorBrush Color="#7FDEDEDE" />
          </Path.Fill>
        </Path>
      </Canvas>
    </Canvas>

```

```

        </Canvas>
        <Path Name="_10_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
        <Path.Stroke>
        <SolidColorBrush Color="#00404040" />
        </Path.Stroke>
        <Path.Fill>
        <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
        <LinearGradientBrush.GradientStops>
        <GradientStop Color="#00FF00FF" />
        <GradientStop Color="#00FF00FF" Offset="1" />
        </LinearGradientBrush.GradientStops>
        </LinearGradientBrush>
        </Path.Fill>
        </Path>
    </Canvas>
    <Canvas Name="_11" RenderTransform="1, 0, 0, 1, 72, 0">
        <Path Name="_11_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
        <Path.Stroke>
        <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
        <Path.Fill>
        <SolidColorBrush Color="#FF000000" />
        </Path.Fill>
        </Path>
    </Canvas>
    <Canvas Name="_13">
        <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
        </Canvas.RenderTransform>
        <Path Name="_13_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
        <Path Name="_13_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
        <Path Name="_13_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
        <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
        </Path>
        <Path Name="_13_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
        <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
        </Path>
        <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_13_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
        </TextBlock>
    </Canvas>
        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">

```

```

        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_14">
    <TextBlock
Tag="Right;Center;;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_14_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">dog </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="100.5" OriginY="1049.5" UnicodeString="dog">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
</Canvas>
<Canvas Name="_15">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
    </Canvas.RenderTransform>
    <Path Name="_15_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_15_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_15_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_15_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_15_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_16">

```

```

        <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_16_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Silly </Run>
    </TextBlock>
    <Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="84.559" OriginY="1049.5" UnicodeString="Silly">
    <Glyphs.Fill>
    <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
    </Glyphs>
    </Canvas>
    </Canvas>
    </Canvas>
    <Canvas Name="_12">
    <Path Name="_12_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
    <LinearGradientBrush.GradientStops>
    <GradientStop Color="#FFFAFAFA" />
    <GradientStop Color="#FFFFFFF" Offset="1" />
    </LinearGradientBrush.GradientStops>
    </LinearGradientBrush>
    </Path.Fill>
    </Path>
    </Canvas>
    </Canvas>
    <Canvas
Tag="\&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;:\&quot;x&quot;;:120,&quot;y&quot;;:6
48,&quot;width&quot;;:96,&quot;height&quot;;:72\\}" Name="_17" RenderTransform="1, 0, 0, 1,
120, -336">
    <Canvas Name="_18">
    <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
    <Path Name="S_18_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#7FDEDEDE" />
    </Path.Stroke>
    <Path.Fill>
    <SolidColorBrush Color="#7FDEDEDE" />
    </Path.Fill>
    </Path>
    </Canvas>
    <Path Name="_18_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#00404040" />
    </Path.Stroke>
    <Path.Fill>
    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">

```

```
<LinearGradientBrush.GradientStops>
  <GradientStop Color="#00FF00FF" />
  <GradientStop Color="#00FF00FF" Offset="1" />
</LinearGradientBrush.GradientStops>
</LinearGradientBrush>
</Path.Fill>
</Path>
</Canvas>
<Canvas Name="_19" RenderTransform="1, 0, 0, 1, 72, 0">
  <Path Name="_19_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
  <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
  </Path.Stroke>
  <Path.Fill>
    <SolidColorBrush Color="#FF000000" />
  </Path.Fill>
</Path>
</Canvas>
<Canvas Name="_21">
  <Canvas.RenderTransform>
    <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
  </Canvas.RenderTransform>
  <Path Name="_21_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
  <Path Name="_21_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
  <Path Name="_21_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
  <Path.Stroke>
    <SolidColorBrush Opacity="0" Color="#FF404040" />
  </Path.Stroke>
</Path>
  <Path Name="_21_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
  <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
  </Path.Stroke>
</Path>
  <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
  <Run Name="txt_21 fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
</TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
  <Glyphs.Fill>
    <SolidColorBrush Color="#FF000000" />
  </Glyphs.Fill>
</Glyphs>
</Canvas>
<Canvas Name="_22">
  <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
```

```

9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
  <Run Name="txt_22_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Id </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="103.67" OriginY="1049.5" UnicodeString="Id">
  <Glyphs.Fill>
    <SolidColorBrush Color="#FF000000" />
  </Glyphs.Fill>
</Glyphs>
</Canvas>
</Canvas>
</Canvas>
<Canvas Name="_23">
  <Canvas.RenderTransform>
    <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
  </Canvas.RenderTransform>
  <Path Name="_23_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
  <Path Name="_23_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
  <Path Name="_23_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
  <Path.Stroke>
    <SolidColorBrush Opacity="0" Color="#FF404040" />
  </Path.Stroke>
</Path>
  <Path Name="_23_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
  <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
  </Path.Stroke>
</Path>
</TextBlock>
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
  <Run Name="txt_23_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
  <Glyphs.Fill>
    <SolidColorBrush Color="#FF000000" />
  </Glyphs.Fill>
</Glyphs>
</Canvas>
</Canvas Name="_24">
  <TextBlock>
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
  <Run Name="txt_24_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">Order </Run>
  </TextBlock>
</Canvas>

```

```

        <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="93.242" OriginY="1049.5" UnicodeString="Order">
        <Glyphs.Fill>
        <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
        </Glyphs>
    </Canvas>
</Canvas>
</Canvas>
<Canvas Name="_20">
    <Path Name="_20_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
    <LinearGradientBrush.GradientStops>
    <GradientStop Color="#FFFAFAFA" />
    <GradientStop Color="#FFFFFF" Offset="1" />
    </LinearGradientBrush.GradientStops>
    </LinearGradientBrush>
    </Path.Fill>
    </Path>
</Canvas>
</Canvas>
<Canvas
Tag="\{&quot;type&quot;;&quot;2D&quot;;&quot;bounds&quot;;\{&quot;x&quot;;480,&quot;y&quot;;:4
92,&quot;width&quot;;:96,&quot;height&quot;;:72\}\}" Name="_25" RenderTransform="1, 0, 0, 1,
480, -492">
    <Canvas Name="_26">
    <Canvas Tag="Shdw" RenderTransform="1, 0, 0, 1, 1.92, 1.92">
    <Path Name="S_26_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#7FDEDEDE" />
    </Path.Stroke>
    <Path.Fill>
    <SolidColorBrush Color="#7FDEDEDE" />
    </Path.Fill>
    </Path>
    </Canvas>
    <Path Name="_26_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M72 1056
L96 1056 L96 1032 L96 984 L0 984 L0 1056 L72 1056 Z">
    <Path.Stroke>
    <SolidColorBrush Color="#00404040" />
    </Path.Stroke>
    <Path.Fill>
    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
    <LinearGradientBrush.GradientStops>
    <GradientStop Color="#00FF00FF" />
    <GradientStop Color="#00FF00FF" Offset="1" />
    </LinearGradientBrush.GradientStops>
    </LinearGradientBrush>
    </Path.Fill>
    </Path>
</Canvas>

```



```

<Canvas Name="_27" RenderTransform="1, 0, 0, 1, 72, 0">
  <Path Name="_27_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L24 1056 L24 1032 L0 1056 Z">
    <Path.Stroke>
      <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
    <Path.Fill>
      <SolidColorBrush Color="#FF000000" />
    </Path.Fill>
  </Path>
</Canvas>
<Canvas Name="_29">
  <Canvas.RenderTransform>
    <MatrixTransform Matrix="1, 0, 0, 1, 102, -16.688582" />
  </Canvas.RenderTransform>
  <Path Name="_29_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
  <Path Name="_29_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
  <Path Name="_29_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
    <Path.Stroke>
      <SolidColorBrush Opacity="0" Color="#FF404040" />
    </Path.Stroke>
  </Path>
  <Path Name="_29_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
    <Path.Stroke>
      <SolidColorBrush Color="#FF404040" />
    </Path.Stroke>
  </Path>
  <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
    <Run Name="txt_29_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">LN </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="LN">
    <Glyphs.Fill>
      <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
  </Glyphs>
</Canvas>
<Canvas Name="_30">
  <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0386" RenderTransform="96, 0, 0, 96,
18.372717, 1038.608582" TextWrapping="Wrap">
    <Run Name="txt_30_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">turtle </Run>
  </TextBlock>
</Canvas>
  <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="92.523" OriginY="1049.5" UnicodeString="turtle">
    <Glyphs.Fill>

```

```

        <SolidColorBrush Color="#FF000000" />
    </Glyphs.Fill>
</Glyphs>
</Canvas>
</Canvas>
</Canvas>
<Canvas Name="_31">
    <Canvas.RenderTransform>
        <MatrixTransform Matrix="1, 0, 0, 1, 102, -36" />
    </Canvas.RenderTransform>
    <Path Name="_31_G0_P0" Data="M1.92 1054.08 L118.08 1054.08 L118.08
1038.61 L1.92 1038.61 L1.92 1054.08 Z" />
    <Path Name="_31_G1_P1" Data="M1.92 1054.08 L118.08 1054.08" />
    <Path Name="_31_G0_P0_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08 L118.08 1038.61 L1.92 1038.61 L1.92 1054.08">
        <Path.Stroke>
            <SolidColorBrush Opacity="0" Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <Path Name="_31_G1_P1_line" StrokeThickness="0.5" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="M1.92
1054.08 L118.08 1054.08">
        <Path.Stroke>
            <SolidColorBrush Color="#FF404040" />
        </Path.Stroke>
    </Path>
    <TextBlock
Tag="Left;Top;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888889"
Height="0.16116" Visibility="Collapsed" Width="0.75625" RenderTransform="96, 0, 0, 96, 1.92,
1038.608582" TextWrapping="Wrap">
        <Run Name="txt_31_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">FN </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="3.2534" OriginY="1049.5" UnicodeString="FN">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
<Canvas Name="_32">
    <TextBlock
Tag="Right;Center;;1.2;0.013888888888889;0.013888888888889;0.013888888888889;0.013888888888888
9" Height="0.16116" Visibility="Collapsed" Width="1.0343" RenderTransform="96, 0, 0, 96,
18.789465, 1038.608582" TextWrapping="Wrap">
        <Run Name="txt_32_fld0" FontFamily="Calibri" FontSize="0.11111"
Foreground="#FF000000">green </Run>
    </TextBlock>
</Canvas>
    <Glyphs FontRenderingEmSize="10.667" FontUri="CommonFonts/4C1AABE5-
BA71-4F2C-8263-66731F995C4B.odttf" OriginX="91.789" OriginY="1049.5" UnicodeString="green">
        <Glyphs.Fill>
            <SolidColorBrush Color="#FF000000" />
        </Glyphs.Fill>
    </Glyphs>
</Canvas>
</Canvas>
</Canvas>

```

```

        <Canvas Name="_28">
            <Path Name="_28_G0" StrokeThickness="0.33333" StrokeDashCap="Round"
StrokeEndLineCap="Round" StrokeLineJoin="Round" StrokeStartLineCap="Round" Data="F0 M0 1056
L72 1056 L96 1032 L96 984 L0 984 L0 1056 Z">
                <Path.Stroke>
                    <SolidColorBrush Color="#FF404040" />
                </Path.Stroke>
                <Path.Fill>
                    <LinearGradientBrush StartPoint="0.5,0" EndPoint="0.5,1">
                        <LinearGradientBrush.GradientStops>
                            <GradientStop Color="#FFFAFAFA" />
                            <GradientStop Color="#FFFFFFF" Offset="1" />
                        </LinearGradientBrush.GradientStops>
                    </LinearGradientBrush>
                </Path.Fill>
            </Path>
        </Canvas>
    </Canvas>
</Canvas>
</Canvas>
</d4p1:Xaml>
</d4p1:OutputPage>

</GetVectorDiagramResult>
</GetVectorDiagramResponse>
</s:Body>
</s:Envelope>

```

4.4 GetRasterPage

In this scenario, the protocol client calls the **GetRasterPage** method (section [3.1.4.3](#)) on a protocol server named "ExampleServer". The protocol server responds with a **GetRasterPageResponse** element (section [3.1.4.3.2.2](#)). To request the raster formatted drawing page (section [1.3.2](#)) of a VSDX web drawing (section [1.3.1](#)), the protocol client constructs the following WSDL message.

```

<s:Body>
    <GetRasterPage xmlns="http://tempuri.org/">
        <rasterPageRequestContract
xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer
" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
            <b:DataModeName>DynamicSafe</b:DataModeName>
            <b:DataSources i:nil="true"></b:DataSources>
            <b:EntityTag>
                <b:DataModeName>Static</b:DataModeName>
                <b:FileETag i:nil="true"></b:FileETag>
                <b:OutputETag i:nil="true"></b:OutputETag>
                <b:SequenceId i:nil="true"></b:SequenceId>
            </b:EntityTag>
            <b:FileUrl> http://ExampleServer/BasicDiagram.vsd</b:FileUrl>
            <b:PageId>-1</b:PageId>
            <b:RefreshCookie i:nil="true"></b:RefreshCookie>
        </rasterPageRequestContract>
    </GetRasterPage>
</s:Body>

```

The protocol server responds with the following:

```

<s:Body>
  <GetRasterPageItemResponse xmlns="http://tempuri.org/">
    <GetRasterPageItemResult
      xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
      xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
      <d4p1:EntityTag>
        <d4p1:DataModeName>Static</d4p1:DataModeName>
        <d4p1:FileETag>{BFC23F51-DFCB-4C68-A3C0-E2422785F256},1</d4p1:FileETag>
      </d4p1:EntityTag>
      <d4p1:ItemData></d4p1:ItemData>
      <d4p1:ResponseCode>OK</d4p1:ResponseCode>
    </GetRasterPageItemResult>
  </GetRasterPageItemResponse>
</s:Body>

```

4.5 GetRasterPageItem

In this scenario, the protocol client calls the **GetRasterPageItem** method (section [3.1.4.4](#)) on a protocol server named "ExampleServer". The protocol server responds with a **GetRasterPageItemResponse** element (section [3.1.4.4.2.2](#)). The **GetRasterPageItem** operation retrieves an item, as specified in section [3.1.1](#), of a drawing page (section [1.3.2](#)) of a **VSDX** web drawing (section [1.3.1](#)) rendered in raster format.

To request this item, the protocol client constructs the following WSDL message:

```

<s:Envelope>
  <s:Body>
    <GetRasterPageItem xmlns="http://tempuri.org/">
      <rasterPageItemRequestContract
        xmlns:b="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <b:EntityTag>
          <b:DataModeName>Static</b:DataModeName>
          <b:FileETag i:nil="true"></b:FileETag>
        </b:EntityTag>
        <b:FileUrl> http://ExampleServer/BasicDiagram.vsd<b:FileUrl>
        <b:ItemName>ShapeInfo</b:ItemName>
        <b:SequenceId>363696e759d24d3aa58818e65c33b6dd</b:SequenceId>
      </rasterPageItemRequestContract>
    </GetRasterPageItem>
  </s:Body>
</s:Envelope>

```

The protocol server responds with the following for Drawing with Static **DataModeName** (section [3.1.4.3.3.1](#)):

```

<s:Envelope>
  <s:Body>
    <GetRasterPageItemResponse xmlns="http://tempuri.org/">
      <GetRasterPageItemResult
        xmlns:d4p1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
        xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <d4p1:EntityTag>
          <d4p1:DataModeName>Static</d4p1:DataModeName>
          <d4p1:FileETag>{BFC23F51-DFCB-4C68-A3C0-E2422785F256},1</d4p1:FileETag>
        </d4p1:EntityTag>

```



```

QIECAwM0VqKqkr7W19a329vZhb66gvREgQIAAAQIESlAg1+SNjIxx5RzRkyfJK8ELUJEIECBAGACB/AhI8vLjjaq8ECBAg
QIAAgaIKRJ34sSJ7MqVK2UdevKKEpk5OAEBCBAGQIFBoAUneLbtWrly5fPXq1f/4zDPP7Ev+WYpdo+dhz+j8J7Fs7ty5z
43OHxpdivy1Nf50i5netX79+6TvVVvNP0xBNP/MmqVaeHrOv2E9/ioUpNo8u/2Wa/1+KP47fpe3jmLGvN1J8mqLrzjvv/G
GsS88R313o68LxCBAGQIAAGWkukEvvyhoeHs3K0SXrydjU2Nq546qmnTtTXl0filT322GP/0NXV9VxVVVXzjBkzLm/fvv3
5urq6N+bNm/darE/J3r+dPXT2wcaNG/c3NDSseuSRR95JieKPYt3MmTMHIpnvHnz2zGfln28ZMmSs2n5pQ8++GD7rFmz
9o7u47/juJs2bT04cfffjgSxSwldv8RcEL8+fNp19bVwh7rvCwzfyf+RKT4BAGQIECIgQCQR5LS0t2ddQUFnHjh07Jnzxo
q2t7Vu53rIYYqWj02N1SuI2xPL4Pjq/La2riuQukq5YFucerto1l3d3dd8T6+H1ELI/1uX3Fus7OztrYlpbn9hG/zejdP
/bckldTHPhvM6lsev4cNPxHEXLvrOw0gWU0TPYK4HcUn6/uns2bP/J02j9zG3Pr5Hb+ILKXI9ksW4DB2TAAECBAGQuNk
CuSTv8uXLWTnHZeneZTytvV6u3lZOCd57KZHWXxfsWLFqbvuuuu/ogfxzTff3JKWbV6wYMGvRhO/q9tu3brl1WPjhu2M
hPDDd9/93TT9o0hEi1B+hyRagAABAgRutkaKecePH8+++OKLSo5Jkrzcm3KHku3YZ+XuNnVe95frRYyewfgePZO5aSYLg
6cew9tiefQcjvY4Rs9jVawbP81rYe2cAAECBAGQyL9ALsksbHBZMyjkmSfKu9oLfc3apdvPe++9990HHnjgL303XfN/Bh
yBAECBAGQIJAHGUjy0i27bGBoKyjzG/X5uHKsEsCBAGQIEBqWgtEktfc3JxdvhixrGOiJC+9RVuXnkPbLb5sEC+eTOS
LW+EJECBAGEC1c+SSvP7+/qycQ09epV/p6k+AAECBCPMIJK8o0epZhcXcjrUn4zeem0H7rOqY8x8mIw44k+MWTJn6eI
4Um6UusyZRpdsVHySG6x5GhVbUQkQIECAAIEJBSR5V8eSy6qrq3++ePHiU/H911tV/ZfRcfnI40LV69at+35a/4Pbb7/99
Zdfvm30ue19IIGb6dlu9Jvvp2Gkn1l+fLlF5gGMP7RqVOnXjh480Dzy5Yt+24MqDxdLr146SSGU4kXtQzLmZWTAECBA
gQmEQg1+T19fv15RyT3a7NDVScrkLvxLNoKtafPn36/jTG3D9H0nf//fctT8TwxXbnzpl7Nm23IoY1ie1HhymJQYvvcg
LY31urLn4Pp0uPm8UT6ezpawECBAGQQA6ApHkHTlyJ0vt7S3ruFaSl+r+aIrayeKF17YeeDagX379+9/6cknn6y73vZl
sr7KpXwCBAGQIEBgmgUcpIXp87btd+d+s9jbtD8P87biEyBAGACBXJLX090TLXN4u9a1ToAAQIECFSSvok63yhIqQ
IAAAQKVIpCSvO/V1tZm5R51dXXDn3766U/i5YhKObfqsYAAAQIECBC45cyZM0tzb1eW6zTq6FQTIECAAECBAGQIECAA
ECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIEC
AAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQ
IECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECB
AgQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAA
ECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIEC
AAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQ
IECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECB
AgQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAA
ECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIEC
AAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQ
IECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECB
AgQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAA
ECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIEC
AAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQ
IECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECBAGQIECAAECB

```

4.6 SaveComments

In this example, the protocol client calls the **SaveComments** method (section 3.1.4.5) on a protocol server named "ExampleServer". The protocol server responds with a **SaveCommentsResponse** element (section 3.1.4.5.2.2). To request the raster-formatted drawing page (section 1.3.2) of a **VSDX** web drawing (section 1.3.1), the protocol client constructs the following WSDL message:

```

<s:Envelope>
  <s:Body>
    <SaveComments xmlns="http://tempuri.org/">
      <fileUrl> http://ExampleServer/BasicDiagram.vsd</fileUrl>
      <commentData>
        <Comment Author='Name of Author' ResolutionID='&lt;resolutionId
provider='&quot;AD&quot;'&gt;&lt;localId sid='&quot;s-1-5-21-2127521184-1604012920-1887927527-
2413478&quot;'&gt;&lt;&lt;/resolutionId&gt;' PageID='0' ShapeID='-1'
Action='Add'>SampleCommentText</Comment>
      
```

```
    </commentData>
  </SaveComments>
</s:Body>
</s:Envelope>
```

The protocol server responds with the following:

```
<s:Envelope>
  <s:Body>
    <SaveCommentsResponse xmlns="http://tempuri.org/">
      <SaveCommentsResult>
        <Comment Action="Add" CommentID="0" Author="Name of Author" ShapeID="-1"
CreationDate="2012-08-28T22:21:53" ModifiedDate="2012-08-28T22:21:53"
Done="false">SampleCommentText</Comment>
      </SaveCommentsResult>
    </SaveCommentsResponse>
  </s:Body>
</s:Envelope>
```


5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns2="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://tempuri.org/"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema xmlns:tns3="http://tempuri.org/Imports"
targetNamespace="http://tempuri.org/Imports">
      <xs:import namespace="http://tempuri.org/" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er"/>
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
      <xs:import />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="IVisioGraphicsService">
    <wsdl:operation name="GetRasterDiagram">
      <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
message="tns2:IVisioGraphicsService_GetRasterDiagram_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramResponse"
message="tns2:IVisioGraphicsService_GetRasterDiagram_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterDiagramVisioGraphicsServiceFau
ltFault" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetVectorDiagram">
      <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
message="tns2:IVisioGraphicsService_GetVectorDiagram_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramResponse"
message="tns2:IVisioGraphicsService_GetVectorDiagram_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetVectorDiagramVisioGraphicsServiceFau
ltFault" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetRasterPage">
      <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPage"
message="tns2:IVisioGraphicsService_GetRasterPage_InputMessage"/>
      <wsdl:output
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageResponse"
message="tns2:IVisioGraphicsService_GetRasterPage_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageVisioGraphicsServiceFau
ltFault" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_GetRasterPage_VisioGraphicsServiceFaultFault_FaultMessage
"/>
    </wsdl:operation>
    <wsdl:operation name="GetRasterPageItem">
      <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItem"
message="tns2:IVisioGraphicsService_GetRasterPageItem_InputMessage"/>

```

```

        <wsdl:output
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItemResponse"
message="tns2:IVisioGraphicsService_GetRasterPageItem_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/GetRasterPageItemVisioGraphicsServiceFa
ultFault" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_GetRasterPageItem_VisioGraphicsServiceFaultFault_FaultMes
sage"/>
        </wsdl:operation>
        <wsdl:operation name="SaveComments">
        <wsdl:input wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveComments"
message="tns2:IVisioGraphicsService_SaveComments_InputMessage"/>
        <wsdl:output
wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveCommentsResponse"
message="tns2:IVisioGraphicsService_SaveComments_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://tempuri.org/IVisioGraphicsService/SaveCommentsVisioGraphicsServiceFaultFa
ult" name="VisioGraphicsServiceFaultFault"
message="tns2:IVisioGraphicsService_SaveComments_VisioGraphicsServiceFaultFault_FaultMessage"
/>
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="DefaultBinding_IVisioGraphicsService"
type="tns2:IVisioGraphicsService">
        <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
        <wsdl:operation name="GetRasterDiagram">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetRasterDiagram"
style="document"/>
        <wsdl:input>
        <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
        <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
        <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace=""/>
        </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetVectorDiagram">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetVectorDiagram"
style="document"/>
        <wsdl:input>
        <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
        <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
        <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace=""/>
        </wsdl:fault>
        </wsdl:operation>
        <wsdl:operation name="GetRasterPage">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetRasterPage"
style="document"/>
        <wsdl:input>
        <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
        <soap:body use="literal"/>
        </wsdl:output>

```

```

        <wsdl:fault name="VisioGraphicsServiceFaultFault">
            <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="GetRasterPageItem">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/GetRasterPageItem"
style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
            <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="SaveComments">
        <soap:operation soapAction="http://tempuri.org/IVisioGraphicsService/SaveComments"
style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
        <wsdl:fault name="VisioGraphicsServiceFaultFault">
            <soap:fault use="literal" name="VisioGraphicsServiceFaultFault" namespace=""/>
        </wsdl:fault>
    </wsdl:operation>
</wsdl:binding>
<wsdl:message name="IVisioGraphicsService_GetRasterDiagram_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterDiagram"/>
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterDiagram_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterDiagramResponse"/>
</wsdl:message>
<wsdl:message
name="IVisioGraphicsService_GetRasterDiagram_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" name="detail" element="tns:VisioGraphicsServiceFault"/>
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterPage_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterPage"/>
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterPage_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterPageResponse"/>
</wsdl:message>
<wsdl:message
name="IVisioGraphicsService_GetRasterPage_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" name="detail" element="tns:VisioGraphicsServiceFault"/>
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterPageItem_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterPageItem"/>
</wsdl:message>
<wsdl:message name="IVisioGraphicsService_GetRasterPageItem_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetRasterPageItemResponse"/>

```

```

    </wsdl:message>
    <wsdl:message
name="IVisioGraphicsService_GetRasterPageItem_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" name="detail" element="tns:VisioGraphicsServiceFault"/>
    </wsdl:message>
    <wsdl:message name="IVisioGraphicsService_GetVectorDiagram_InputMessage">
    <wsdl:part name="parameters" element="tns2:GetVectorDiagram"/>
    </wsdl:message>
    <wsdl:message name="IVisioGraphicsService_GetVectorDiagram_OutputMessage">
    <wsdl:part name="parameters" element="tns2:GetVectorDiagramResponse"/>
    </wsdl:message>
    <wsdl:message
name="IVisioGraphicsService_GetVectorDiagram_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" name="detail" element="tns:VisioGraphicsServiceFault"/>
    </wsdl:message>
    <wsdl:message name="IVisioGraphicsService_SaveComments_InputMessage">
    <wsdl:part name="parameters" element="tns2:SaveComments"/>
    </wsdl:message>
    <wsdl:message name="IVisioGraphicsService_SaveComments_OutputMessage">
    <wsdl:part name="parameters" element="tns2:SaveCommentsResponse"/>
    </wsdl:message>
    <wsdl:message
name="IVisioGraphicsService_SaveComments_VisioGraphicsServiceFaultFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" name="detail" element="tns:VisioGraphicsServiceFault"/>
    </wsdl:message>
</wsdl:definitions>

```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer	tns	7.1
http://schemas.microsoft.com/2003/10/Serialization/Arrays	q1	7.2
http://schemas.microsoft.com/2003/10/Serialization/	tns1	7.3
http://tempuri.org/	tns2	7.4

For ease of implementation, the following sections provide the full XML schema for this protocol.

7.1

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer> Schema

```
<?xml version="1.0"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServer"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="RasterDiagramRequestContract">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BaseRequestContract">
        <xs:sequence>
          <xs:element minOccurs="0" name="Resolution" type="xs:int"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="RasterDiagramRequestContract" nillable="true"
  type="tns:RasterDiagramRequestContract"/>
  <xs:complexType name="BaseRequestContract">
    <xs:sequence>
      <xs:element minOccurs="0" name="DataSources" nillable="true"
      type="tns:ArrayOfAddonDataSource"/>
      <xs:element minOccurs="0" name="DisableRefresh" type="xs:boolean"/>
      <xs:element minOccurs="0" name="FileUri" nillable="true" type="xs:anyURI"/>
      <xs:element minOccurs="0" name="PageNumber" type="xs:int"/>
      <xs:element minOccurs="0" name="TimeLastModified" type="xs:dateTime"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="BaseRequestContract" nillable="true" type="tns:BaseRequestContract"/>
  <xs:complexType name="ArrayOfAddonDataSource">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AddonDataSource" nillable="true"
      type="tns:AddonDataSource"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfAddonDataSource" nillable="true"
  type="tns:ArrayOfAddonDataSource"/>
  <xs:complexType name="AddonDataSource">
    <xs:sequence>
```

```

<xs:element minOccurs="0" name="ConnectionString" nillable="true" type="xs:string"/>
<xs:element minOccurs="0" name="Data" nillable="true">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="xs:schema"/>
      <xs:any/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element minOccurs="0" name="Id" type="xs:int"/>
<xs:element minOccurs="0" name="QueryString" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>
<xs:element name="AddonDataSource" nillable="true" type="tns:AddonDataSource"/>
<xs:complexType name="RasterDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="AreaMaps" nillable="true" type="xs:string"/>
        <xs:element minOccurs="0" name="Image" nillable="true" type="xs:base64Binary"/>
        <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="RasterDiagram" nillable="true" type="tns:RasterDiagram"/>
<xs:complexType name="DiagramBase">
  <xs:sequence>
    <xs:element minOccurs="0" name="CacheAge" type="xs:int"/>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="DiagramBase" nillable="true" type="tns:DiagramBase"/>
<xs:complexType name="VisioGraphicsServiceFault">
  <xs:sequence>
    <xs:element minOccurs="0" name="Details" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Error" type="tns:FaultCode"/>
    <xs:element minOccurs="0" name="Flags" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="VisioGraphicsServiceFault" nillable="true"
type="tns:VisioGraphicsServiceFault"/>
<xs:simpleType name="FaultCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DataConnectivityError"/>
    <xs:enumeration value="DataSourceConnectionError"/>
    <xs:enumeration value="DataSourcePermissionError"/>
    <xs:enumeration value="EmptyRasterDiagramRequest"/>
    <xs:enumeration value="EmptyVectorDiagramRequest"/>
    <xs:enumeration value="OfficeDataConnectionFileNotFound"/>
    <xs:enumeration value="OfficeDataConnectionFileRetrievalError"/>
    <xs:enumeration value="OfficeDataConnectionFileAccessDenied"/>
    <xs:enumeration value="IncompatibleDomain"/>
    <xs:enumeration value="WssViewAccessDenied"/>
    <xs:enumeration value="WssListAccessDenied"/>
    <xs:enumeration value="InvalidPageNumber"/>
    <xs:enumeration value="InvalidResolution"/>
    <xs:enumeration value="InvalidFileUrl"/>
  </xs:restriction>
</xs:simpleType>

```

```

<xs:enumeration value="RasterizationError"/>
<xs:enumeration value="InvalidFileExtension"/>
<xs:enumeration value="EmptyServerData"/>
<xs:enumeration value="OpenServerFileFailed"/>
<xs:enumeration value="NoReadPermissionToFile"/>
<xs:enumeration value="KeyNotFoundFromCollection"/>
<xs:enumeration value="ExceededMaxDiagramSize"/>
<xs:enumeration value="IncompatibleVersion"/>
<xs:enumeration value="DataProviderNotTrusted"/>
<xs:enumeration value="DataBindingConflict"/>
<xs:enumeration value="UnableToGetExternalDataSourceCredentials"/>
<xs:enumeration value="UnattendedAccountTypeMismatch"/>
<xs:enumeration value="RecalcTimedOut"/>
<xs:enumeration value="LicenseExpired"/>
<xs:enumeration value="InvalidZoomLevel"/>
<xs:enumeration value="VSDXFileLoadGenericError"/>
<xs:enumeration value="VSDXFileLoadPermissionError"/>
<xs:enumeration value="VSDXFileSizeError"/>
<xs:enumeration value="WebPartConfigError"/>
<xs:enumeration value="EmptyRasterPageRequest"/>
<xs:enumeration value="EmptyRasterPageItemRequest"/>
<xs:enumeration value="VDWNotSupportExternalList"/>
<xs:enumeration value="ExternalListConfigurationNotSupported"/>
<xs:enumeration value="IncompatibleDomain_15"/>
<xs:enumeration value="FileNotLockedOnServer"/>
<xs:enumeration value="FileAlreadyCheckedOutOnServer"/>
<xs:enumeration value="FileAlreadyLockedOnServer"/>
<xs:enumeration value="DocumentCheckoutRequired"/>
<xs:enumeration value="ExcelFileNotInSharePoint"/>
<xs:enumeration value="PageDrawingAreaSizeUnsupported"/>
<xs:enumeration value="PageImageSizeUnsupported"/>
<xs:enumeration value="PageFailToRaster"/>
<xs:enumeration value="CannotRetrieveExternalListData"/>
</xs:restriction>
</xs:simpleType>
<xs:element name="FaultCode" nillable="true" type="tns:FaultCode"/>
<xs:complexType name="VectorDiagramRequestContract">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestContract">
      <xs:sequence/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="VectorDiagramRequestContract" nillable="true"
type="tns:VectorDiagramRequestContract"/>
<xs:complexType name="VectorDiagram">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:DiagramBase">
      <xs:sequence>
        <xs:element minOccurs="0" name="OutputPage" nillable="true"
type="tns:RenderedPage"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="VectorDiagram" nillable="true" type="tns:VectorDiagram"/>
<xs:complexType name="RenderedPage">
  <xs:sequence>

```



```

    <xs:element minOccurs="0" name="Resources" nillable="true"
type="tns:ArrayOfDiagramResource"/>
    <xs:element minOccurs="0" name="ShapeInfo" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Xaml" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RenderedPage" nillable="true" type="tns:RenderedPage"/>
<xs:complexType name="ArrayOfDiagramResource">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="DiagramResource" nillable="true"
type="tns:DiagramResource"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfDiagramResource" nillable="true"
type="tns:ArrayOfDiagramResource"/>
<xs:complexType name="DiagramResource">
  <xs:sequence>
    <xs:element minOccurs="0" name="ByteData" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="DiagramResource" nillable="true" type="tns:DiagramResource"/>
<xs:complexType name="RasterPageRequest">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageTag"/>
    <xs:element minOccurs="0" name="FileUrl" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="PageId" type="xs:long"/>
    <xs:element minOccurs="0" name="RefreshCookie" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageRequest" nillable="true" type="tns:RasterPageRequest"/>
<xs:complexType name="RasterPageTag">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FileETag" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="OutputETag" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SequenceId" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageTag" nillable="true" type="tns:RasterPageTag"/>
<xs:complexType name="RasterPageResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataSources" nillable="true"
type="tns:ArrayOfAddonDataSource"/>
    <xs:element minOccurs="0" name="EntityTag" nillable="true" type="tns:RasterPageTag"/>
    <xs:element minOccurs="0" name="PageInfo" nillable="true" type="tns:RasterPageInfo"/>
    <xs:element minOccurs="0" name="ResponseCode" type="tns:RasterPageResponseCode"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageResponse" nillable="true" type="tns:RasterPageResponse"/>
<xs:complexType name="RasterPageInfo">
  <xs:sequence>
    <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
minOccurs="0" name="ZoomValues" nillable="true" type="q1:ArrayOfint"/>
  </xs:sequence>
</xs:complexType>

```

```

<xs:element name="RasterPageInfo" nillable="true" type="tns:RasterPageInfo"/>
<xs:simpleType name="RasterPageResponseCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotModified"/>
    <xs:enumeration value="OK"/>
    <xs:enumeration value="DataSources"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="RasterPageResponseCode" nillable="true"
type="tns:RasterPageResponseCode"/>
<xs:complexType name="RasterPageItemRequest">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityTag" nillable="true"
type="tns:RasterPageItemTag"/>
    <xs:element minOccurs="0" name="FileUrl" nillable="true" type="xs:anyURI"/>
    <xs:element minOccurs="0" name="ItemName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="SequenceId" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageItemRequest" nillable="true" type="tns:RasterPageItemRequest"/>
<xs:complexType name="RasterPageItemTag">
  <xs:sequence>
    <xs:element minOccurs="0" name="DataModeName" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="FileETag" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageItemTag" nillable="true" type="tns:RasterPageItemTag"/>
<xs:complexType name="RasterPageItemResponse">
  <xs:sequence>
    <xs:element minOccurs="0" name="EntityTag" nillable="true"
type="tns:RasterPageItemTag"/>
    <xs:element minOccurs="0" name="ItemData" nillable="true" type="xs:base64Binary"/>
    <xs:element minOccurs="0" name="ResponseCode" type="tns:RasterPageItemResponseCode"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="RasterPageItemResponse" nillable="true"
type="tns:RasterPageItemResponse"/>
<xs:simpleType name="RasterPageItemResponseCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NotModified"/>
    <xs:enumeration value="OK"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="RasterPageItemResponseCode" nillable="true"
type="tns:RasterPageItemResponseCode"/>
<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
</xs:schema>

```

7.2 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:ql="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType name="ArrayOfint">
    <xs:sequence>

```

```

    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfint" nillable="true" type="q1:ArrayOfint"/>
</xs:schema>

```

7.3 http://schemas.microsoft.com/2003/10/Serialization/ Schema

```

<?xml version="1.0"?>
<xs:schema xmlns:tns1="http://schemas.microsoft.com/2003/10/Serialization/"
  attributeFormDefault="qualified" elementFormDefault="qualified"
  targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="anyType" nillable="true" type="xs:anyType"/>
  <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
  <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
  <xs:element name="boolean" nillable="true" type="xs:boolean"/>
  <xs:element name="byte" nillable="true" type="xs:byte"/>
  <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
  <xs:element name="decimal" nillable="true" type="xs:decimal"/>
  <xs:element name="double" nillable="true" type="xs:double"/>
  <xs:element name="float" nillable="true" type="xs:float"/>
  <xs:element name="int" nillable="true" type="xs:int"/>
  <xs:element name="long" nillable="true" type="xs:long"/>
  <xs:element name="QName" nillable="true" type="xs:QName"/>
  <xs:element name="short" nillable="true" type="xs:short"/>
  <xs:element name="string" nillable="true" type="xs:string"/>
  <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
  <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
  <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
  <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
  <xs:element name="char" nillable="true" type="tns1:char"/>
  <xs:simpleType name="char">
    <xs:restriction base="xs:int"/>
  </xs:simpleType>
  <xs:element name="duration" nillable="true" type="tns1:duration"/>
  <xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
      <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?"/>
      <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
      <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="guid" nillable="true" type="tns1:guid"/>
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:attribute name="FactoryType" type="xs:QName"/>
  <xs:attribute name="Id" type="xs:ID"/>
  <xs:attribute name="Ref" type="xs:IDREF"/>
</xs:schema>

```

7.4 http://tempuri.org/ Schema

```
<?xml version="1.0"?>
<xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er"/>
  <xs:element name="GetRasterDiagram">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="rasterDiagramRequestContract" nillable="true"
type="tns:RasterDiagramRequestContract"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRasterDiagramResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="GetRasterDiagramResult" nillable="true" type="tns:RasterDiagram"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetVectorDiagram">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="vectorDiagramRequest" nillable="true"
type="tns:VectorDiagramRequestContract"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetVectorDiagramResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="GetVectorDiagramResult" nillable="true" type="tns:VectorDiagram"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRasterPage">
    <xs:complexType>
      <xs:sequence>
        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="rasterPageRequestContract" nillable="true"
type="tns:RasterPageRequest"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetRasterPageResponse">
    <xs:complexType>
      <xs:sequence>
```

```

        <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="GetRasterPageResult" nillable="true" type="tns:RasterPageResponse"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="GetRasterPageItem">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="rasterPageItemRequestContract" nillable="true"
type="tns:RasterPageItemRequest"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
<xs:element name="GetRasterPageItemResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Visio.Server.GraphicsServ
er" minOccurs="0" name="GetRasterPageItemResult" nillable="true"
type="tns:RasterPageItemResponse"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
<xs:element name="SaveComments">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="fileUrl" nillable="true" type="xs:anyURI"/>
            <xs:element minOccurs="0" name="commentData" nillable="true" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SaveCommentsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" name="SaveCommentsResult" nillable="true"
type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:schema>

```

8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft SharePoint Server 2010
- Microsoft SharePoint Server 2013

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

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

[<1> Section 2.2.9.1:](#) This element and its complex types are available only in SharePoint Server 2013.

[<2> Section 2.2.9.2:](#) This element and its complex types are available only in SharePoint Server 2013.

[<3> Section 2.2.9.3:](#) This element and its complex types are available only in SharePoint Server 2013.

[<4> Section 2.2.9.4:](#) This element and its complex types are available only in SharePoint Server 2013.

[<5> Section 3.1.1:](#) This model is available only in SharePoint Server 2013.

[<6> Section 3.1.2:](#) This timer is available only in SharePoint Server 2013.

[<7> Section 3.1.4:](#) The **GetRasterPage** operation is available only in SharePoint Server 2013.

[<8> Section 3.1.4:](#) The **GetRasterPageItem** operation is available only in SharePoint Server 2013.

[<9> Section 3.1.4:](#) This operation is available only in SharePoint Server 2013.

[<10> Section 3.1.4.3:](#) The **GetRasterPage** operation is available only in SharePoint Server 2013.

[<11> Section 3.1.4.4:](#) The **GetRasterPageItem** operation is available only in SharePoint Server 2013.

[<12> Section 3.1.4.4:](#) In SharePoint Server 2010 and SharePoint Server 2013, the server responds with a **VisioGraphicsServiceFault** complex type SOAP fault only when the request message is null.

[<13> Section 3.1.4.5:](#) This operation is available only in SharePoint Server 2013.

[<14> Section 3.1.5:](#) This timer event is available only in SharePoint Server 2013.

9 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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