

## [MS-FSDAP]:

# Forms Services Design and Activation Web Service Protocol

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Preliminary

## Revision Summary

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# 1 Introduction

The Forms Services Design and Activation Web Service Protocol enables a protocol client to verify whether the protocol server can transform a form from client to server, request the protocol server implement the transformation, and set and update the location and relationship of the transformed form on the protocol server.

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

## 1.1 Glossary

This document uses the following terms:

**assembly:** A collection of one or more files that is versioned and deployed as a unit. An assembly is the primary building block of a .NET Framework application. All managed types and resources are contained within an assembly and are marked either as accessible only within the assembly or as accessible from code in other assemblies. Assemblies also play a key role in security. The code access security system uses information about an assembly to determine the set of permissions that is granted to code in the assembly.

**authentication:** The act of proving an identity to a server while providing key material that binds the identity to subsequent communications.

**base64 encoding:** A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [\[RFC4648\]](#).

**browser-enable:** The process of converting an InfoPath form template into a format that can be rendered in a web browser, and publishing it to and activating it on a protocol server that is running InfoPath Forms Services.

**business logic:** A set of rules, formulas, validation, and code that define the limits and methods for processing data that is entered into an InfoPath form.

**Collaborative Application Markup Language (CAML):** An XML-based language that is used to describe various elements, such as queries and views, in sites that are based on SharePoint Products and Technologies.

**conditional formatting:** A mechanism that changes the appearance of a user interface element based on the evaluation of a rule or expression.

**content type:** A named and uniquely identifiable collection of settings and fields that store metadata for individual items in a SharePoint list. One or more content types can be associated with a list, which restricts the contents to items of those types.

**content type identifier:** A unique identifier that is assigned to a **content type**.

**control:** A graphical user interface object that users interact with when working with applications, forms, documents, webpages, and other types of files.

**data adapter:** Code that submits data to and retrieves data from an external data source. Also referred to as data provider.

**data validation:** The process of testing the accuracy of data; a set of rules that specify the type and range of data that users can enter.

**design check:** The process of verifying whether an InfoPath form template can open and work correctly in a web browser, if it is hosted on a protocol server that is running InfoPath Forms Services, and reporting potential issues for that form template.



**digital signature:** A value that is generated by using a digital signature algorithm, taking as input a private key and an arbitrary-length string, such that a specific verification algorithm is satisfied by the value, the input string, and the public key corresponding to the input private key.

**document library:** A type of list that is a container for documents and folders.

**field:** A container for metadata within a SharePoint list and associated list items.

**field internal name:** A string that uniquely identifies a field in a content type or a SharePoint list.

**form definition (.xsf) file:** An XML file with an .xsf file name extension. The file contains information about the files and components that are used within a form, including user interface customizations, **XML schemas**, views, **business logic**, events, and deployment settings.

**form template (.xsn) file:** A cabinet (.cab) file with an .xsn file name extension that contains the files that comprise a form template.

**form view:** A display setting that is saved with an InfoPath form template and specifies which controls and data appear on a form when the form is being filled out.

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

**Hypertext Transfer Protocol Secure (HTTPS):** An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

**Internationalized Resource Identifier (IRI):** A resource identifier that conforms to the rules for Internationalized Resource Identifiers, as defined in [\[RFC3987\]](#).

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

**list:** A container within a SharePoint site that stores list items. A list has a customizable schema that is composed of one or more fields.

**list identifier:** A GUID that is used to identify a **list** in a site collection.

**list schema:** The **Collaborative Application Markup Language (CAML)** schema of a list.

**localization:** The process of adapting an application or documentation, including text and non-text elements, to meet the language, cultural, and political expectations and requirements of a specific geographic country or region.

**rule:** A condition or action, or a set of conditions or actions, that performs tasks automatically based on events and values.

**sandboxed solution:** A custom solution that can be deployed to a site by a site collection administrator, without approval from the server farm administrator.

**site:** A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and web site.

**site content type:** A named and uniquely identifiable collection of settings and fields that store metadata for lists within individual sites.

**SOAP:** A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which

provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

**SOAP action:** The HTTP request header field used to indicate the intent of the **SOAP** request, using a URI value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

**SOAP body:** A container for the payload data being delivered by a **SOAP message** to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

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

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

**Status-Code:** A 3-digit integer result code in an HTTP response message, as described in [\[RFC2616\]](#).

**submit:** The process of sending data to an external data source such as a web service, database, Internet message, or SharePoint site.

**Unicode:** A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The **Unicode** standard [\[UNICODE5.0.0/2007\]](#) provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

**Uniform Resource Locator (URL):** A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

**Universal Naming Convention (UNC):** A string format that specifies the location of a resource. For more information, see [\[MS-DTYP\]](#) section 2.2.57.

**user code:** Managed code that can be uploaded to a site by a site collection administrator, without approval from the server farm administrator. It cannot access code or data on other site collections.

**web service:** A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as **HTTP**, Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

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

**WSDL message:** An abstract, typed definition of the data that is communicated during a **WSDL operation** [\[WSDL\]](#). Also, an element that describes the data being exchanged between web service providers and clients.

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

**XML fragment:** Lines of text that adhere to XML tag rules, as described in [XML], but do not have a Document Type Definition (DTD) or schema, processing instructions, or any other header information.

**XML namespace:** A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [XMLNS-2ED].

**XML namespace prefix:** An abbreviated form of an XML namespace, as described in [XML].

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

**XPath expression:** An expression that searches an XML document and can extract and manipulate data in elements or attributes within that document.

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

## 1.2 References

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

### 1.2.1 Normative References

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

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[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation, December 1999, <http://www.w3.org/TR/html4/>

[MS-IPFF2] Microsoft Corporation, "[InfoPath Form Template Format Version 2](#)".

[MS-IPFF] Microsoft Corporation, "[InfoPath Form Template Format](#)".

[MS-LCID] Microsoft Corporation, "[Windows Language Code Identifier \(LCID\) Reference](#)".

[MS-LISTSWS] Microsoft Corporation, "[Lists Web Service Protocol](#)".

[MS-WSSF03] Microsoft Corporation, "[Windows SharePoint Services \(WSS\): File Operations Database Communications Version 3 Protocol](#)".

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

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

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

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

[XPATH] Clark, J. and DeRose, S., "XML Path Language (XPath), Version 1.0", W3C Recommendation, November 1999, <http://www.w3.org/TR/1999/REC-xpath-19991116/>

## 1.2.2 Informative References

[MS-FSFD] Microsoft Corporation, "[Forms Services Feature Detection Protocol](#)".

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

## 1.3 Overview

Users of a protocol server often interact with sets of data – adding and modifying data in any given set. A **form template (.xsn) file** can be used as an interface to a dataset if the form template (.xsn) file can be rendered by the protocol server and if the correct relationships are established between the form template (.xsn) file and the appropriate data structure on the protocol server.

This protocol defines several methods by which a protocol client can request a protocol server to **browser-enable** or **design check** a specified form template (.xsn) file. There are several different scenarios in which different combinations of the web methods defined in this protocol can be used, but

these methods can also be used independently. Scenarios involving the methods defined in this protocol include:

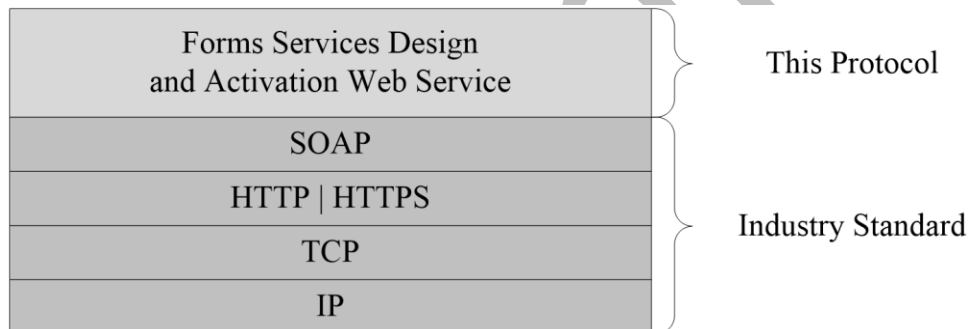
- Verifying that a form template (.xsn) file can be successfully browser-enabled by a protocol server without a file transfer, as a pre-emptive check, and sending back to the protocol client a list of any issues blocking browser-enabling.
- Transferring a form template (.xsn) file to a protocol server and browser-enabling it.
- Mapping a form template (.xsn) file to a **content type** on a protocol server and maintaining both of these items if changes are made to either one.
- Verifying whether a form template (.xsn) file that contains user-authored code can be uploaded to a protocol server, be browser-enabled, and successfully execute that **user code**.

#### 1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2-1/2007\]](#) and [\[SOAP1.2-2/2007\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#).

A protocol client can use the Form Server Feature Detection protocol, as described in [\[MS-FSFD\]](#), to determine whether a protocol server implements the Forms Service Design and Activation protocol and also whether a protocol server implements Version 1 or Version 2 of the Forms Service Design and Activation Protocol. For more information, see [\[MS-FSFD\]](#) section 1.3.

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 site that is identified by a **URL** that is known by protocol clients. The protocol server endpoint is formed by appending "\_vti\_bin/FormsServices.asmx" to the URL of the site. For example, this URL could be "http://www.contoso.com/Repository/\_vti\_bin/FormsServices.asmx". This protocol assumes that **authentication** has been performed by the underlying protocols.

#### 1.6 Applicability Statement

None.

## 1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas.

**File Format:** This protocol refers to different file format specifications, as described in [\[MS-IPFF\]](#) and [\[MS-IPFF2\]](#), both of which define the structure of a valid **form template (.xsn) file**. In cases where both specifications are cited as references, the **SolutionFormatVersion** attribute of the **xDocumentClass** element, as described in [\[MS-IPFF2\]](#) section 2.2.1.2.1, specifies whether to use the InfoPath Form Template Format, as described in [\[MS-IPFF\]](#), or the InfoPath Form Template Format Version 2, as described in [\[MS-IPFF2\]](#).

**Supported Transports:** This protocol uses multiple transports with SOAP, as specified in section [2.1](#).

**Localization:** This protocol includes text strings in various messages. **Localization** considerations for such strings are specified in section [2.2.4.4](#).

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

Preliminary

## 2 Messages

### 2.1 Transport

Protocol messages MUST be formatted as specified either in [\[SOAP1.1\]](#) section 4, or in [\[SOAP1.2-1/2007\]](#) section 5.

Protocol server faults MUST be returned using either HTTP Status Codes, as specified in [\[RFC2616\]](#) section 10, or using **SOAP faults**, as specified in either [\[SOAP1.1\]](#) section 4.4, or [\[SOAP1.2-1/2007\]](#) section 5.4.

Protocol servers MUST support SOAP over HTTP. Protocol servers SHOULD also support SOAP over HTTPS for securing communication with clients.

### 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 [\[XMLSCHEMA1/2\]](#) and [\[XMLSCHEMA2/2\]](#), 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
http	<a href="http://schemas.xmlsoap.org/wsd/http/">http://schemas.xmlsoap.org/wsd/http/</a>	<a href="#">[WSDL]</a>
soap	<a href="http://schemas.xmlsoap.org/wsd/soap/">http://schemas.xmlsoap.org/wsd/soap/</a>	<a href="#">[SOAP1.1]</a>
soap12	<a href="http://schemas.xmlsoap.org/wsd/soap12/">http://schemas.xmlsoap.org/wsd/soap12/</a>	<a href="#">[SOAP1.2-1/2007]</a> <a href="#">[SOAP1.2-2/2007]</a>
tns	<a href="http://schemas.microsoft.com/office/infopath/2007/formsServices">http://schemas.microsoft.com/office/infopath/2007/formsServices</a>	
wSDL	<a href="http://schemas.xmlsoap.org/wsd/">http://schemas.xmlsoap.org/wsd/</a>	<a href="#">[WSDL]</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1/2]</a> <a href="#">[XMLSCHEMA2/2]</a>

#### 2.2.2 Messages

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

#### 2.2.3 Elements

This specification does not define any common **XML schema** element definitions.

## 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
<b>Categories</b>	The <b>Categories</b> element is a container for <b>Category</b> elements returned by the protocol server to the protocol client after design checking the <b>form template (.xsn) file</b> .
<b>CategoryType</b>	The <b>CategoryType</b> element provides suggestions for the protocol client on how to display the information contained within <b>Message</b> elements returned by the protocol server after the <b>design check</b> operation has finished. <a href="#">&lt;1&gt;</a>
<b>DesignCheckerInformation</b>	The <b>DesignCheckerInformation</b> complex element is used by the protocol server to return data to the protocol client.
<b>Message</b>	The <b>Message</b> element indicates a specific issue the protocol server found within a form template during the <b>browser-enable</b> or design check processes.
<b>Messages</b>	The <b>Messages</b> element is the container for <b>Message</b> elements, as specified in section <a href="#">2.2.4.4</a> , returned by the protocol server after attempting to browser-enable or design check the form template.
<b>SourceLocation</b>	This element indicates the location of an issue within the form template source files that is responsible for generating the corresponding <b>Message</b> element, as specified in <a href="#">section 2.2.4.4</a> .

### 2.2.4.1 Categories

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

The **Categories** element is a container for **Category** elements returned by the protocol server to the protocol client after design checking the **form template (.xsn) file**.

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

**Category:** Specified in section [2.2.4.2](#).

### 2.2.4.2 CategoryType

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

The **CategoryType** element provides suggestions for the protocol client on how to display the information contained within **Message** elements returned by the protocol server after the **design check** operation has finished. [<2>](#)

```
<xs:complexType name="CategoryType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Id" type="tns:Category"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Label" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```



```
<xs:element minOccurs="1" maxOccurs="1" name="HideWarningsByDefault" type="xs:boolean"/>
</xs:sequence>
</xs:complexType>
```

**Id:** Specified in section [2.2.5.1](#).

**Label:** Specifies a **Unicode** string describing the **Category** element, as specified in section 2.2.5.1, appropriate for display in the protocol client. For localization considerations see [section 2.2.4.4](#).

**HideWarningsByDefault:** Specifies a **Boolean** value indicating whether **Message** elements with an associated **MessageType** of "Warning" are to be displayed on the protocol client application by default.

### 2.2.4.3 DesignCheckerInformation

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

The **DesignCheckerInformation** complex element is used by the protocol server to return data to the protocol client.

```
<xs:complexType name="DesignCheckerInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ApplicationId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Lcid" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Categories" type="tns:Categories"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Messages" type="tns:Messages"/>
  </xs:sequence>
</xs:complexType>
```

**ApplicationId:** Specifies the **Unicode string** that identifies the protocol client that initiated the request. This Unicode **string** **MUST** be identical to the **string** sent by the protocol client in the **ApplicationId** element.

**Lcid:** Specifies a **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#), of the preferred language for any messages returned by the protocol server, as specified in [section 2.2.4.4](#).

**Categories:** Specified in [section 2.2.4.1](#).

**Messages:** Specified in [section 2.2.4.5](#).

### 2.2.4.4 Message

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

The **Message** element indicates a specific issue the protocol server found within a form template during the **browser-enable** or **design check** processes.

```
<xs:complexType name="Message" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ShortMessage" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DetailedMessage" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SourceLocation" type="tns:SourceLocation"/>
  </xs:sequence>
  <xs:attribute name="Id" type="xs:int" use="required"/>
  <xs:attribute name="Type" type="tns:MessageType" use="required"/>
  <xs:attribute name="Feature" type="tns:Feature" use="required"/>
  <xs:attribute name="Category" type="tns:Category" use="required"/>
</xs:complexType>
```

**ShortMessage:** A **Unicode string** suitable for display in the protocol client describing the issue. This element **MUST** have a value populated by the protocol server.

**DetailedMessage:** A Unicode **string** suitable for display in the protocol client describing the issue.

Any localized Unicode **strings** returned by the protocol server **SHOULD** be in the language requested by the protocol client in the associated **Web service** call. If the protocol server is unable to provide **strings** in the requested language, the protocol server **MAY** <3> use any available language.

**SourceLocation:** Specified in section [2.2.4.6](#).

**Id:** Specifies an integer that identifies the type of **Message** element.

**Type:** Specified in section [2.2.5.3](#).

**Feature:** Specified in section [2.2.5.2](#).

**Category:** Specified in section [2.2.5.1](#).

The following table specifies a set of reserved **Message** elements. For the check specified in the Description column, a protocol server **MUST** construct a **Message** element matching the details in the table row, in conjunction with the table specified in section 2.2.4.6. A protocol server **MUST NOT** redefine the **Id** attribute for any **Message** element in the following table <4>.

For the reserved elements in the following table, **ShortMessage** and **DetailedMessage** are overwritten by the protocol client.

Either the InfoPath Form Template Format Structure, as specified in [\[MS-IPFF\]](#), or the InfoPath Form Template Format Version 2 Structure, as specified in [\[MS-IPFF2\]](#), **MUST** be used as described in section 1.7.

Id	Category	Feature	Type	Description
44	Browser-Compatibility	Controls	Error	This message <b>MUST</b> be generated when the <b>form definition (.xsf) file</b> contains an invalid <b>documentSignatures</b> element, as specified in <a href="#">[MS-IPFF]</a> section 2.2.125 and <a href="#">[MS-IPFF2]</a> section 2.2.1.2.106.
65	Browser-Compatibility	Controls	Error	This message <b>MUST</b> be generated when the form definition (.xsf) file contains an invalid <b>xmlToEdit</b> element, as specified in <a href="#">[MS-IPFF]</a> section 2.2.124 and <a href="#">[MS-IPFF2]</a> section 2.2.1.2.105.
70	Browser-Compatibility	Controls	Error	This message <b>MUST</b> be generated when the <b>form view</b> file contains an invalid construct, as specified in <a href="#">[MS-IPFF]</a> section 2.4.1.23 and <a href="#">[MS-IPFF2]</a> section 2.4.1.24.
104	Browser-Compatibility	Controls	Error	This message <b>MUST</b> be generated when the form definition (.xsf) file contains an unsupported <b>roles</b> element, as specified in <a href="#">[MS-IPFF]</a> section 2.2.81 and <a href="#">[MS-IPFF2]</a> section 2.2.1.2.62.
105	Browser-Compatibility	Controls	Error	This message <b>MUST</b> be generated when the form definition (.xsf) file contains an unsupported <b>save</b> element as specified in <a href="#">[MS-IPFF]</a> section 2.2.80 and <a href="#">[MS-IPFF2]</a>

Id	Category	Feature	Type	Description
				section 2.2.1.2.61.
106	Browser-Compatibility	Controls	Error	This message MUST be generated when the form definition (.xsf) file contains an unsupported <b>scripts</b> element as specified in [MS-IPFF] section 2.2.33 and [MS-IPFF2] section 2.2.1.2.14.
108	Browser-Compatibility	Controls	Error	This message MUST be generated when the form definition (.xsf) file contains an unsupported <b>importParameters</b> element that contains a <b>useScriptHandler</b> attribute set to "yes" as specified in [MS-IPFF] section 2.2.67 and [MS-IPFF2] section 2.2.1.2.58.
146	Browser-Compatibility	Controls	Warning	This message MUST be generated when the form definition (.xsf) file contains an <b>errorMessage</b> element as specified in [MS-IPFF] section 2.2.64 and [MS-IPFF2] section 2.2.1.2.45 and the value of the <b>type</b> attribute is not "modeless".
154	Browser-Compatibility	Controls	Error	This message MUST be generated by the protocol server when the form definition (.xsf) file contains an <b>adoAdapter</b> element, as specified in [MS-IPFF] section 2.2.38 and [MS-IPFF2] section 2.2.1.2.19, that is configured to submit the form file.
188	Browser-Compatibility	Controls	Error	This message MUST be generated when the <b>form template (.xsn) file</b> contains a <b>dialogBoxExpressionAction</b> element as specified in [MS-IPFF] section 2.2.137 and [MS-IPFF2] section 2.2.1.2.118.
190	Browser-Compatibility	Controls	Warning	This message MUST be generated when the form definition (.xsf) file contains a <b>closeDocumentAction</b> element with attribute <b>promptToSaveChanges</b> that has the value "yes" as specified in [MS-IPFF] section 2.2.142 and [MS-IPFF2] section 2.2.1.2.124.
282	Browser-Compatibility	Controls	Error	This message MUST be generated when the form definition (.xsf) file contains a <b>dataObject</b> element, as specified in [MS-IPFF2] section 2.2.1.2.17, that references a <b>bdcAdapter</b> element, as specified in [MS-IPFF2] section 2.2.1.2.129, along with additional references in the <b>dataObject</b> elements.
283	Browser-Compatibility	Controls	Error	This message MUST be generated when the form definition (.xsf) file contains a <b>Signature Line Control</b> , as specified in [MS-IPFF2] section 2.2.3.2.12.
284	Browser-Compatibility	Controls	Error	This message MUST be generated when a form definition (.xsf) file contains a <b>List Control</b> element, [MS-IPFF2] section 2.4.1.21.7, with the attribute <b>xctname</b> that has the value "ListItem_Formatted".
294	Browser-Compatibility	DataAdapters	Error	This message MUST be generated when a form definition (.xsf) file contains a <b>dataObject</b> element, as specified in [MS-IPFF2] section 2.2.1.2.17, that references a <b>UNC</b> path or local path.

## 2.2.4.5 Messages

**Namespace:** http://schemas.microsoft.com/office/infopath/2007/formsServices

The **Messages** element is the container for **Message** elements, as specified in [section 2.2.4.4](#), returned by the protocol server after attempting to **browser-enable** or **design check** the form template.

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

**Message:** Specified in [section 2.2.4.4](#).

## 2.2.4.6 SourceLocation

**Namespace:** http://schemas.microsoft.com/office/infopath/2007/formsServices

This element indicates the location of an issue within the form template source files that is responsible for generating the corresponding **Message** element, as specified in [section 2.2.4.4](#).

```
<xs:complexType name="SourceLocation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:attribute name="ControlId" type="xs:string"/>
  <xs:attribute name="FileName" type="xs:string"/>
  <xs:attribute name="LineNumber" type="xs:int"/>
  <xs:attribute name="LinePosition" type="xs:int"/>
</xs:complexType>
```

**ControlId:** Specifies the **Unicode string** that identifies the **control** causing the associated **Message** element.

**FileName:** Specifies the **Unicode string** file name of the file within the form template source files containing the issue that caused the associated **Message** element.

**LineNumber:** Specifies the **integer** that represents the line within the file where the issue responsible for generating the corresponding **Message** element exists.

**LinePosition:** Specifies the **integer** column that represents the column within the file where the issue responsible for generating the corresponding **Message** element begins.

The following table specifies when the **ControlId**, **FileName**, **LineNumber** and **LinePosition** attributes **MUST** be populated when **Message** elements matching those specified in [section 2.2.4.4](#) are constructed by the protocol server. In this table, "True" indicates that the attribute **MUST** be set and "False" indicates that the attribute **MUST NOT** be set.

Id	ControlId	FileName	LineNumber	LinePosition
44	False	True	False	False
65	False	True	True	True
70	False	True	True	True
101	False	True	False	False

Id	ControlId	FileName	LineNumber	LinePosition
104	False	True	False	False
105	False	True	False	False
106	False	True	False	False
107	False	True	False	False
108	False	True	False	False
146	False	True	False	False
154	False	True	False	False
188	False	True	False	False
190	False	True	False	False
282	False	True	False	False
283	True	True	True	False
284	True	True	True	False
285	False	True	False	False
294	False	False	False	False

## 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
<b>Category</b>	The <b>Category</b> element indicates whether the corresponding <b>Message</b> element, as specified in section 2.2.4.4, is a potential performance issue or whether it represents an issue preventing the form template from being browser-enabled.
<b>Feature</b>	The <b>Features</b> element indicates the feature in the form template that is responsible for generating the corresponding <b>Message</b> element, as specified in section 2.2.4.4, when the protocol server is attempting to browser-enable or <b>design check</b> the <b>form template (.xsn) file</b> .
<b>MessageType</b>	The <b>MessageType</b> element indicates whether the protocol server encountered an error, warning, or is simply relaying informative text while browser-enabling or design checking the form template (.xsn) file.

### 2.2.5.1 Category

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

The **Category** element indicates whether the corresponding **Message** element, as specified in section 2.2.4.4, is a potential performance issue or whether it represents an issue preventing the form template from being browser-enabled.

```
<xs:simpleType name="Category" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="BrowserOptimization"/>
    <xs:enumeration value="BrowserCompatibility"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
BrowserOptimization	This <b>enumeration</b> value MUST be used when a browser-optimization issue is found during the analysis of the <b>form template (.xsn) file</b> .
BrowserCompatibility	This <b>enumeration</b> value MUST be used for all issues that are not browser-optimization issues.

### 2.2.5.2 Feature

**Namespace:** http://schemas.microsoft.com/office/infopath/2007/formsServices

The **Features** element indicates the feature in the form template that is responsible for generating the corresponding **Message** element, as specified in section 2.2.4.4, when the protocol server is attempting to browser-enable or **design check** the **form template (.xsn) file**.

```
<xs:simpleType name="Feature" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GenericXsf"/>
    <xs:enumeration value="XsfSchema"/>
    <xs:enumeration value="GenericXsl"/>
    <xs:enumeration value="GenericXPath"/>
    <xs:enumeration value="TemplateXml"/>
    <xs:enumeration value="Layout"/>
    <xs:enumeration value="Controls"/>
    <xs:enumeration value="BusinessLogic"/>
    <xs:enumeration value="Calculations"/>
    <xs:enumeration value="Validation"/>
    <xs:enumeration value="DigitalSignatures"/>
    <xs:enumeration value="DataAdapters"/>
    <xs:enumeration value="Submit"/>
    <xs:enumeration value="Views"/>
    <xs:enumeration value="Rules"/>
    <xs:enumeration value="ConditionalFormatting"/>
    <xs:enumeration value="VersionUpgrade"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
GenericXsf	Issues related to the <b>form definition (.xsf) file</b> without a more specific <b>Feature</b> value available, as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.

Value	Meaning
XsfSchema	Issues related to the form definition (.xsf) file, as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
GenericXsl	Issues related to <b>form views</b> without a more specific <b>Feature</b> value available, as specified in [MS-IPFF] and [MS-IPFF2] section 2.4.
GenericXPath	Issues related to a <b>XPath expression</b> without a more specific <b>Feature</b> value available.
TemplateXml	Issues in the <b>template.xml</b> , as specified in [MS-IPFF] and [MS-IPFF2] section 2.7.
Layout	Issues relating to <b>form view</b> layout, as specified in [MS-IPFF] and [MS-IPFF2] section 2.4.
Controls	Issues related to controls, as specified in [MS-IPFF] section 2.3 and [MS-IPFF] and [MS-IPFF2] section 2.4.
BusinessLogic	Issues related to <b>business logic</b> declarations as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
Calculations	Issues related to calculation declarations, as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
Validation	Issues related to <b>data validation</b> declarations.
DigitalSignatures	Issues related to <b>digital signatures</b> , as specified in [MS-IPFF] section 2.2.126 and [MS-IPFF2] section 2.2.1.2.107.
DataAdapters	Issues related to <b>data adapter</b> , as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
Submit	Issues related to <b>submit</b> .
Views	Issues related to <b>form views</b> , as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
Rules	Issues related to <b>rules</b> , as specified in [MS-IPFF] and [MS-IPFF2] section 2.2.
ConditionalFormatting	Issues related to <b>conditional formatting</b> , as specified in [MS-IPFF] and [MS-IPFF2] section 2.4.
VersionUpgrade	Issues related to version upgrade, as specified in [MS-IPFF] and [MS-IPFF2] [MS-IPFF2] section 2.2.1.2.109.

### 2.2.5.3 MessageType

**Namespace:** http://schemas.microsoft.com/office/infopath/2007/formsServices

The **MessageType** element indicates whether the protocol server encountered an error, warning, or is simply relaying informative text while browser-enabling or design checking the **form template (.xsn) file**.

```
<xs:simpleType name="MessageType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Error"/>
    <xs:enumeration value="Information"/>
    <xs:enumeration value="Warning"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
Error	The protocol server MUST use this value for an issue that prevents a form template from being successfully browser-enabled
Information	The protocol server MUST use this value to specify informative text for the protocol client. The issue MUST NOT prevent a form template from being successfully browser-enabled.
Warning	The protocol server MUST use this value to specify an issue that could degrade the end user experience. The issue MUST NOT prevent a form template from being successfully browser-enabled.

### 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.

Preliminary



## 3 Protocol Details

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

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

### 3.1 Server Details

#### 3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

For **list**-related web methods, the protocol server maintains a mapping between a **form template (.xsn) file** and a list **content type**, as specified in [\[MS-WSSTS\]](#) section 2.1.2.8.

For browser enabling web methods, the protocol server maintains a mapping between a form template (.xsn) file and a **document library** or **site content type**.

For design checking and user code checking web methods, the state of the protocol server does affect the responses it sends in response to the respective queries from the protocol client.

#### 3.1.2 Timers

None.

#### 3.1.3 Initialization

None.

#### 3.1.4 Message Processing Events and Sequencing Rules

A protocol server MUST support **form template (.xsn) files** conformant to [\[MS-IPFF\]](#) and MUST support the **BrowserEnableUserFormTemplate**, as specified in section [3.1.4.1](#), and **DesignCheckFormTemplate**, as specified in section [3.1.4.2](#), **WSDL operations**. A protocol server SHOULD support form template (.xsn) files conformant to [\[MS-IPFF2\].<5>](#) If a protocol server supports form template (.xsn) files conformant to [\[MS-IPFF2\]](#), that protocol server MUST support all WSDL operations specified in the following table. In response to any unsupported WSDL operation requests, the protocol server MAY [<6>](#) return a SOAP fault.

Any protocol server that supports any of the WSDL operations **GetListFormLocation**, as specified in section [3.1.4.3](#), **SetFormsForListItem**, as specified in section [3.1.4.5](#), or **SetSchemaChangesForList**, as specified in section [3.1.4.6](#), MUST support all three of these WSDL operations.

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

Operation	Description
<b>BrowserEnableUserFormTemplate</b>	The <b>BrowserEnableUserFormTemplate</b> WSDL operation is used to <b>browser-enable</b> a form template (.xsn) file.
<b>DesignCheckFormTemplate</b>	The <b>DesignCheckFormTemplate</b> WSDL operation is used to <b>design check</b> a form template (.xsn) file.
<b>GetListFormLocation</b>	The <b>GetListFormLocation</b> WSDL operation is used to determine if there is a form template (.xsn) file mapped to a <b>content type</b> , and where that file is located.
<b>GetUserCodeDeploymentDependencies</b>	The <b>GetUserCodeDeploymentDependencies</b> WSDL operation is used to determine if a form template (.xsn) file with code can be browser-enabled on a <b>site</b> as a <b>sandboxed solution</b> .
<b>SetFormsForListItem</b>	The <b>SetFormsForListItem</b> WSDL operation is used to design check a form template (.xsn) file and subsequently map it to a content type.
<b>SetSchemaChangesForList</b>	The <b>SetSchemaChangesForList</b> WSDL operation is used to change the <b>list schema</b> of the specified <b>list</b> by performing adds, deletes and updates to the <b>fields</b> of the list.

#### 3.1.4.1 BrowserEnableUserFormTemplate

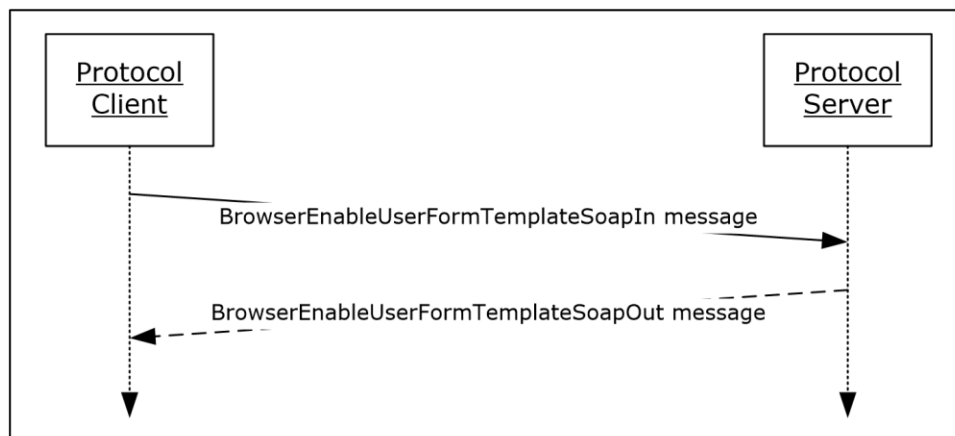
The **BrowserEnableUserFormTemplate** WSDL operation is used to **browser-enable** a **form template (.xsn) file**.

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

```
<wsdl:operation name="BrowserEnableUserFormTemplate"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:BrowserEnableUserFormTemplateSoapIn"/>
  <wsdl:output message="tns:BrowserEnableUserFormTemplateSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **BrowserEnableUserFormTemplateSoapIn** request **SOAP message**, and the protocol server responds with a **BrowserEnableUserFormTemplateSoapOut** response SOAP message.

## BrowserEnableUserFormTemplate



**Figure 2: Exchange of SOAP messages for the BrowserEnableUserFormTemplate operation between protocol client and protocol server**

### 3.1.4.1.1 Messages

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

Message	Description
<b>BrowserEnableUserFormTemplateSoapIn</b>	The request WSDL message for the <b>BrowserEnableUserFormTemplate WSDL operation</b> .
<b>BrowserEnableUserFormTemplateSoapOut</b>	The response WSDL message for the <b>BrowserEnableUserFormTemplate WSDL operation</b> .

#### 3.1.4.1.1.1 BrowserEnableUserFormTemplateSoapIn

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/infopath/2007/formsServices/BrowserEnableUserFormTemplate
```

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

#### 3.1.4.1.1.2 BrowserEnableUserFormTemplateSoapOut

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

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

### 3.1.4.1.2 Elements

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

Element	Description
<b>BrowserEnableUserFormTemplate</b>	The input data for the <b>BrowserEnableUserFormTemplate WSDL operation</b> .
<b>BrowserEnableUserFormTemplateResponse</b>	The result data for the <b>BrowserEnableUserFormTemplate WSDL operation</b> .

### 3.1.4.1.2.1 BrowserEnableUserFormTemplate

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

```
<xs:element name="BrowserEnableUserFormTemplate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="formTemplateLocation" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**formTemplateLocation:** This is the **URL** of a **form template (.xsn) file** on the protocol server. The protocol server **MUST** be able to decode a URL as specified in [\[RFC2396\]](#).

### 3.1.4.1.2.2 BrowserEnableUserFormTemplateResponse

The **BrowserEnableUserFormTemplateResponse** element specifies the result data for the **BrowserEnableUserFormTemplate WSDL operation**.

```
<xs:element name="BrowserEnableUserFormTemplateResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="BrowserEnableUserFormTemplateResult"
        type="tns:MessagesResponse"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**BrowserEnableUserFormTemplateResult:** This element **MUST** be returned by the protocol server after attempting to browser-enable the form template. The **form template (.xsn) file** **MUST** be valid according to [\[MS-IPFF\]](#) or [\[MS-IPFF2\]](#) to be browser-enabled.

Either the InfoPath Form Template Format Structure, as specified in [\[MS-IPFF\]](#), or the InfoPath Form Template Format Version 2 Structure, as specified in [\[MS-IPFF2\]](#), **MUST** be used as described in section 1.7.

If the form template (.xsn) file was successfully browser-enabled, the protocol server **MUST** send zero **Message** elements in the **Messages** element of the associated **MessagesResponse** element. [<7>](#)

If the attempt to **browser-enable** the form template (.xsn) file was unsuccessful, the protocol server **MUST** send one or more **Message** elements with the **MessageType** attribute set to "Error" in the **Messages** element of the associated **MessagesResponse** element.

The protocol server **MUST NOT** return **Message** elements with a **MessageType** of "Warning" or "Information" in a response to the **BrowserEnableUserFormTemplate** operation.

### 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
<b>MessagesResponse</b>	Container for the <b>Messages</b> element, as specified in section <a href="#">2.2.4.5</a>

#### 3.1.4.1.3.1 MessagesResponse

**Namespace:** <http://schemas.microsoft.com/office/infopath/2007/formsServices>

This is the container for the **Messages** element, as specified in section [2.2.4.5](#), returned by the protocol server after attempting to browser-enable.

```
<xs:complexType name="MessagesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Messages" type="tns:Messages"/>
  </xs:sequence>
</xs:complexType>
```

**Messages:** Specified in section [2.2.4.3](#), **Messages**.

#### 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.

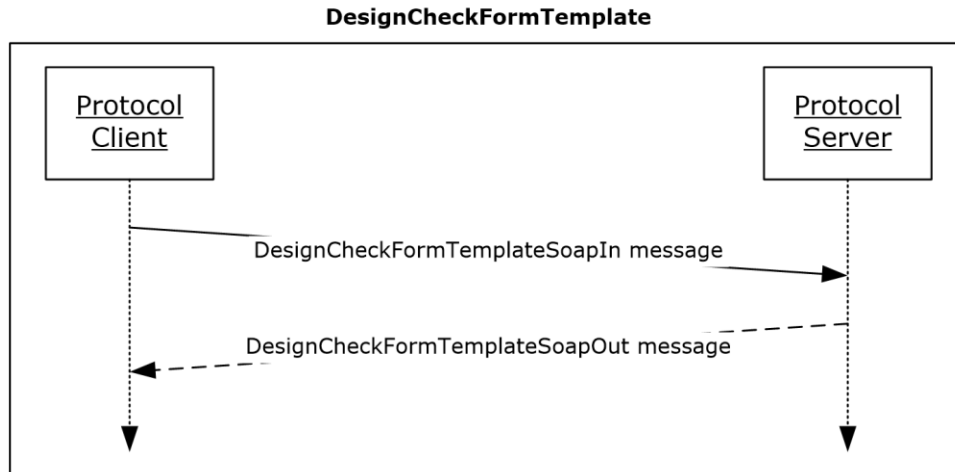
### 3.1.4.2 DesignCheckFormTemplate

The **DesignCheckFormTemplate** WSDL operation is used to **design check** a **form template (.xsn) file**.

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

```
<wsdl:operation name="DesignCheckFormTemplate" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:DesignCheckFormTemplateSoapIn"/>
  <wsdl:output message="tns:DesignCheckFormTemplateSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **DesignCheckFormTemplateSoapIn** request **SOAP message** and the protocol server responds with a **DesignCheckFormTemplateSoapOut** response SOAP message.



**Figure 3: Exchange of SOAP messages for the DesignCheckFormTemplate operation between protocol client and protocol server**

### 3.1.4.2.1 Messages

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

Message	Description
<b>DesignCheckFormTemplateSoapIn</b>	The request WSDL message for the <b>DesignCheckFormTemplate WSDL operation</b> .
<b>DesignCheckFormTemplateSoapOut</b>	The response WSDL message for the <b>DesignCheckFormTemplate WSDL operation</b> .

#### 3.1.4.2.1.1 DesignCheckFormTemplateSoapIn

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

The **SOAP action** value is:

`http://schemas.microsoft.com/office/infopath/2007/formsServices/DesignCheckFormTemplate`

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

#### 3.1.4.2.1.2 DesignCheckFormTemplateSoapOut

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

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

### 3.1.4.2.2 Elements

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

Element	Description
<b>DesignCheckFormTemplate</b>	The input data for the <b>DesignCheckFormTemplate WSDL operation</b> .
<b>DesignCheckFormTemplateResponse</b>	The result data for the <b>DesignCheckFormTemplate WSDL operation</b> .

### 3.1.4.2.2.1 DesignCheckFormTemplate

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

```
<xs:element name="DesignCheckFormTemplate" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="base64FormTemplate" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="applicationId" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lcid:** A **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#).

**base64FormTemplate:** The **form template (.xsn) file**, encoded with **base64 encoding**, to **design check**. If the base64 encoding is not valid, the protocol server SHOULD return a **Message** element with a **MessageType** of "Error" to the protocol client, but it MAY [<8>](#) return a **SOAP fault**. When the base64 value is decoded, it MUST be a form template (.xsn) file, as specified in [\[MS-IPFF\]](#) or [\[MS-IPFF2\]](#).

The **SolutionFormatVersion** attribute of the **xDocumentClass** element, as described in [\[MS-IPFF2\]](#) section 2.2.1.2.1, specifies whether the InfoPath Form Template Format, as described in [\[MS-IPFF\]](#), or the InfoPath Form Template Format Version 2, as described in [\[MS-IPFF2\]](#), MUST be used when both versions of those structures are cited.

**applicationId:** The **Unicode string** that identifies the protocol client that initiated the request to **DesignCheckFormTemplate**. [<9>](#)

### 3.1.4.2.2.2 DesignCheckFormTemplateResponse

The **DesignCheckFormTemplateResponse** element specifies the result data for the **DesignCheckFormTemplate WSDL operation**.

```
<xs:element name="DesignCheckFormTemplateResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DesignCheckFormTemplateResult"
        type="tns:DesignCheckerInformation"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DesignCheckFormTemplateResult:** A **DesignCheckerInformation** (section [2.2.4.3](#)) value. This element is returned by the protocol server after design checking the **form template (.xsn) file**.

Any localized **strings** returned by the protocol server SHOULD be in the language requested by the protocol client. If the protocol server is unable to provide **strings** in the requested language, the protocol server MAY [<10>](#) use any available language.

### 3.1.4.2.3 Complex Types

None.

### 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 GetListFormLocation

The GetListFormLocation **WSDL operation** is used to determine if there is a **form template (.xsn) file** mapped to a **content type**, and where that file is located.

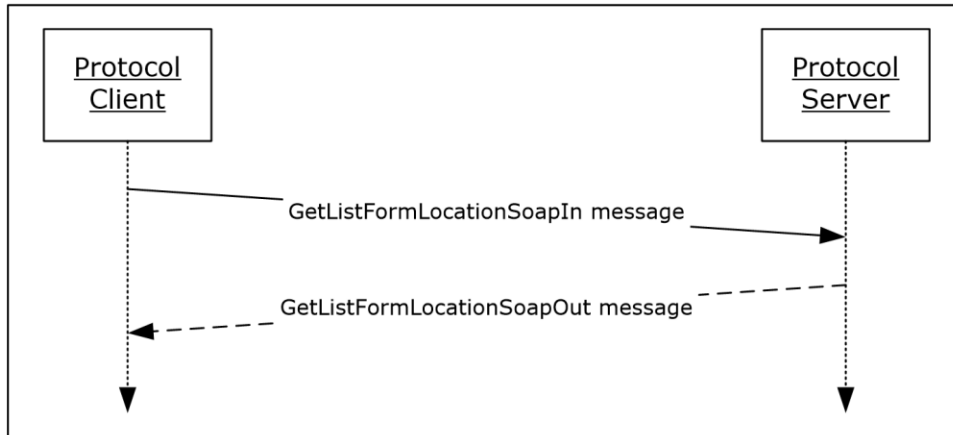
The following is the **WSDL** port type specification of the **GetListFormLocation** WSDL operation.

```
<wsdl:operation name="GetListFormLocation" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetListFormLocationSoapIn"/>
  <wsdl:output message="tns:GetListFormLocationSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **GetListFormLocationSoapIn** request **SOAP message** and the protocol server responds with a **GetListFormLocationSoapOut** response SOAP message.



## GetListFormLocation



**Figure 4: Exchange of SOAP messages for the `GetListFormLocation` operation between protocol client and protocol server**

### 3.1.4.3.1 Messages

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

Message	Description
<code>GetListFormLocationSoapIn</code>	The request WSDL message for the <code>GetListFormLocation</code> <b>WSDL operation</b> .
<code>GetListFormLocationSoapOut</code>	The response WSDL message for the <code>GetListFormLocation</code> WSDL operation.

#### 3.1.4.3.1.1 `GetListFormLocationSoapIn`

The request **WSDL message** for the `GetListFormLocation` **WSDL operation**.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/infopath/2007/formsServices/GetListFormLocation
```

The **SOAP body** contains the `GetListFormLocation` element.

#### 3.1.4.3.1.2 `GetListFormLocationSoapOut`

The response **WSDL message** for the `GetListFormLocation` **WSDL operation**.

The **SOAP body** contains the `GetListFormLocationResponse` element.

### 3.1.4.3.2 Elements

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

Element	Description
<b>GetListFormLocation</b>	The input data for the <b>GetListFormLocation WSDL operation</b> .
<b>GetListFormLocationResponse</b>	The result data for the <b>GetListFormLocation WSDL operation</b> .

### 3.1.4.3.2.1 GetListFormLocation

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

```
<xs:element name="GetListFormLocation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="checkDesignPermissions"
type="xs:boolean"/>
      <xs:element minOccurs="1" maxOccurs="1" name="checkCustomFormEnabled"
type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lcid:** A **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#), identifying the preferred message language of the protocol client. See section [2.2.4.4](#) for localization considerations.

**listGuid:** A **list identifier**, as specified in [\[MS-WSSTS\]](#) section 2.1.2.7.

**contentTypeId:** A **content type identifier**, as specified in [\[MS-WSSTS\]](#) section 2.1.2.8.1. The **content type** identified MUST be associated with the **list** specified by **listGuid**.

**checkDesignPermissions:** If this parameter is "true", the protocol server MUST check for the same level of permissions as required for the **SetFormsForListItem** operation by ensuring that the protocol client has permissions to manage list forms. Otherwise, if the parameter value is "false", the protocol server MUST check for a WSS Rights Mask with the **OpenItems** flag set as specified in [\[MS-WSSFO3\]](#) section 2.2.2.15. If in either case the protocol client does not have sufficient rights, the protocol server MUST return a **Status-Code** 401 Unauthorized.

**checkCustomFormEnabled:** If this parameter is "true", the protocol server MUST only return a non-empty **GetListFormLocationResult**, as specified in section [3.1.4.3.2.2](#), when the **listGuid** and **contentTypeId** parameters identify a browser-enabled **form template (.xsn) file**. Otherwise, if the parameter value is "false", the protocol server MUST return a non-empty **GetListFormLocationResult**, as specified in section [3.1.4.3.2.2](#), when the **listGuid** and **contentTypeId** parameters identify a form template (.xsn) file that is not browser-enabled.

### 3.1.4.3.2.2 GetListFormLocationResponse

The **GetListFormLocationResponse** element specifies the result data for the **GetListFormLocation WSDL operation**.

```
<xs:element name="GetListFormLocationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetListFormLocationResult"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

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

**GetListFormLocationResult:** If the **contentTypeId** parameter does not identify an existing **content type**, the protocol server MUST return a **SOAP fault**. If there is no form template (.xsn) file mapped to the specified content type, the protocol server MUST return an empty **GetListFormLocationResult** element. If a form template (.xsn) file is mapped to the content type, but the form template is not browser-enabled, and the **checkCustomFormEnabled** parameter is "true", the protocol server MUST return an empty **GetListFormLocationResult**. In all other cases, the **GetListFormLocationResult** element MUST be an absolute **Internationalized Resource Identifier (IRI)** pointing to the location of the **form template (.xsn) file**.

### 3.1.4.3.3 Complex Types

None.

### 3.1.4.3.4 Simple Types

None.

### 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 GetUserCodeDeploymentDependencies

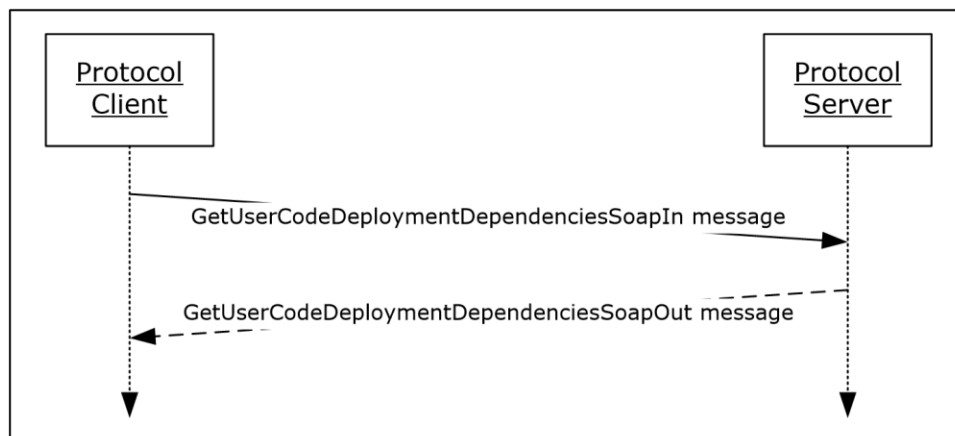
The **GetUserCodeDeploymentDependencies WSDL operation** is used to determine if a **form template (.xsn) file** with code can be browser-enabled on a **site** as a **sandboxed solution**.

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

```
<wsdl:operation name="GetUserCodeDeploymentDependencies"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetUserCodeDeploymentDependenciesSoapIn"/>
  <wsdl:output message="tns:GetUserCodeDeploymentDependenciesSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **GetUserCodeDeploymentDependenciesSoapIn** request **SOAP message**, and the protocol server responds with a **GetUserCodeDeploymentDependenciesSoapOut** response SOAP message.

## GetUserCodeDeploymentDependencies



**Figure 5: Exchange of SOAP messages for the GetUserCodeDeploymentDependencies operation between the protocol client and protocol server**

### 3.1.4.4.1 Messages

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

Message	Description
<b>GetUserCodeDeploymentDependenciesSoapIn</b>	The request WSDL message for the <b>GetUserCodeDeploymentDependencies WSDL operation</b> .
<b>GetUserCodeDeploymentDependenciesSoapOut</b>	The response WSDL message for the <b>GetUserCodeDeploymentDependencies WSDL operation</b> .

#### 3.1.4.4.1.1 GetUserCodeDeploymentDependenciesSoapIn

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/infopath/2007/formsServices/GetUserCodeDeploymentDependencies
```

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

#### 3.1.4.4.1.2 GetUserCodeDeploymentDependenciesSoapOut

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

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

### 3.1.4.4.2 Elements

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

Element	Description
<b>GetUserCodeDeploymentDependencies</b>	The input data for the <b>GetUserCodeDeploymentDependencies WSDL operation</b> .
<b>GetUserCodeDeploymentDependenciesResponse</b>	The result data for the <b>GetUserCodeDeploymentDependencies WSDL operation</b> .

#### 3.1.4.4.2.1 GetUserCodeDeploymentDependencies

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

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

**siteCollectionLocation:** This element is the **URL** of the **site** to verify that **sandboxed solution** activation is permitted. The protocol server **MUST** be able to decode the URL as specified in [\[RFC2396\]](#).

#### 3.1.4.4.2.2 GetUserCodeDeploymentDependenciesResponse

The **GetUserCodeDeploymentDependenciesResponse** element specifies the result data for the **GetUserCodeDeploymentDependencies WSDL operation**.

```
<xs:element name="GetUserCodeDeploymentDependenciesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="GetUserCodeDeploymentDependenciesResult"
type="tns:UserSolutionActivationStatus"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetUserCodeDeploymentDependenciesResult:** A child of the **GetUserCodeDeploymentDependenciesResponse** container. The protocol server **MUST** return one of the values specified in [3.1.4.4.4.1](#).

#### 3.1.4.4.3 Complex Types

None.

#### 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
<b>UserSolutionActivationStatus</b>	

### 3.1.4.4.4.1 UserSolutionActivationStatus

**Namespace:** http://schemas.microsoft.com/office/infopath/2007/formsServices

This element specifies the allowed values for the **GetUserCodeDeploymentDependenciesResult** element.

```
<xs:simpleType name="UserSolutionActivationStatus"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ActivationAllowed"/>
    <xs:enumeration value="ActivationDenied"/>
    <xs:enumeration value="UserCodeServiceNotAvailable"/>
    <xs:enumeration value="ServiceQuotaExceeded"/>
    <xs:enumeration value="InsufficientUserPermissions"/>
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
ActivationAllowed	The protocol server MUST return this value to specify that the user code support is available on the server and the <b>Web service</b> user is allowed to <b>browser-enable a form template (.xsn) file</b> with code.
ActivationDenied	The protocol server MUST return this value to specify that the Web service user is not allowed to browser-enable a form template (.xsn) file with code on the <b>site</b> specified in <a href="#">3.1.4.4.2.1</a> . The protocol server MUST NOT return this enumeration value for conditions that are covered by <b>UserCodeServiceNotAvailable</b> , <b>ServiceQuotaExceeded</b> , and <b>InsufficientUserPermissions</b> values specified in this table.
UserCodeServiceNotAvailable	The protocol server MUST return this value to specify that the <b>user code</b> support is not available on the server.
ServiceQuotaExceeded	The protocol server MUST return this value to specify that the user code support is not available on the site specified in <a href="#">3.1.4.4.2.1</a> because the quota allotted to <b>sandboxed solutions</b> has been exceeded.
InsufficientUserPermissions	The protocol server MUST return this value to specify that the Web service user is not allowed to browser-enable a form template (.xsn) file with code because the Web service user is not a site collection administrator on the site specified in <a href="#">3.1.4.4.2.1</a> .

### 3.1.4.4.5 Attributes

None.

### 3.1.4.4.6 Groups

None.

### 3.1.4.4.7 Attribute Groups

None.

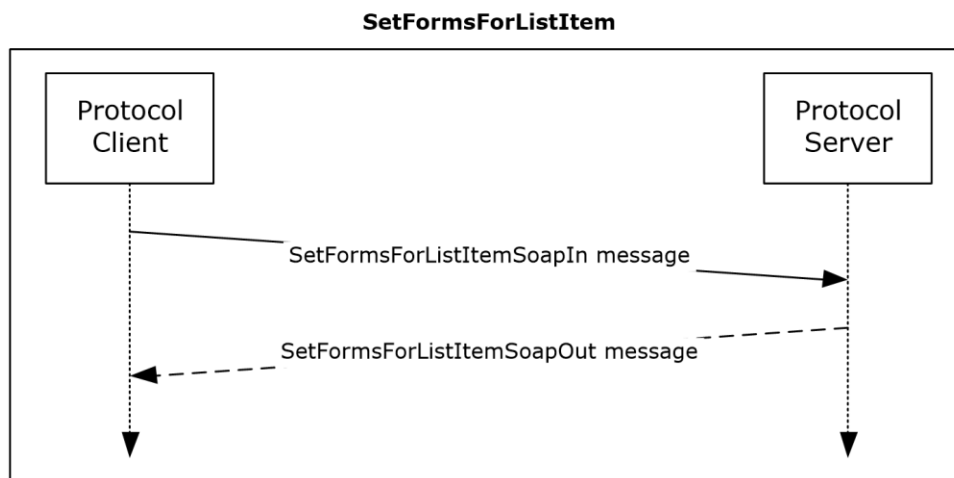
### 3.1.4.5 SetFormsForListItem

The **SetFormsForListItem WSDL operation** is used to **design check** a **form template (.xsn) file** and subsequently map it to a **content type**.

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

```
<wsdl:operation name="SetFormsForListItem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:SetFormsForListItemSoapIn"/>
  <wsdl:output message="tns:SetFormsForListItemSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **SetFormForListItemSoapIn** request **SOAP message** and the protocol server responds with a **SetFormForListItemSoapOut** response SOAP message.



**Figure 6: Exchange of SOAP messages for the SetFormsForListItem operation between protocol client and protocol server**

### 3.1.4.5.1 Messages

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

Message	Description
<b>SetFormsForListItemSoapIn</b>	The request WSDL message for the <b>SetFormsForListItem WSDL operation</b> .
<b>SetFormsForListItemSoapOut</b>	The response WSDL message for the <b>SetFormsForListItem</b> WSDL operation.

### 3.1.4.5.1.1 SetFormsForListItemSoapIn

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/infopath/2007/formsServices/SetFormsForListItem
```

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

### 3.1.4.5.1.2 SetFormsForListItemSoapOut

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

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

### 3.1.4.5.2 Elements

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

Element	Description
<b>SetFormsForListItem</b>	The input data for the <b>SetFormsForListItem WSDL operation</b> .
<b>SetFormsForListItemResponse</b>	The result data for the <b>SetFormsForListItem WSDL operation</b> .

#### 3.1.4.5.2.1 SetFormsForListItem

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

```
<xs:element name="SetFormsForListItem" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="base64FormTemplate" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="applicationId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="contentTypeid" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**lcid:** A **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#).

**base64FormTemplate:** The **form template (.xsn) file**, encoded with base64 encoding, to map. If the base64 encoding is not valid, the protocol server SHOULD return a **Message** element with a **MessageType** of "Error" to the protocol client, but it MAY [<11>](#) return a **SOAP fault**. When the **base64** value is decoded, it MUST be a form template (.xsn) file, as specified in [\[MS-IPFF\]](#) or [\[MS-IPFF2\]](#).

The **SolutionFormatVersion** attribute of the **xDocumentClass** element, as described in [\[MS-IPFF2\]](#) section 2.2.1.2.1, specifies whether the InfoPath Form Template Format, as described in [\[MS-IPFF\]](#), or the InfoPath Form Template Format Version 2, as described in [\[MS-IPFF2\]](#), MUST be used when both versions of those structures are cited.



**applicationId:** The **Unicode string** that identifies the protocol client that initiated the request to **SetFormsForListItem**. This element SHOULD be ignored by the protocol server. <12>

**listGuid:** A **list identifier**, as specified in [MS-WSSTS] section 2.1.2.7.

**contentTypeId:** A **content type identifier**, as specified in [MS-WSSTS] section 2.1.2.8.1. The **content type** identified MUST be associated with the **list** specified by **listGuid**.

### 3.1.4.5.2.2 SetFormsForListItemResponse

The **SetFormsForListItemResponse** element specifies the result data for the **SetFormsForListItem WSDL operation**.

```
<xs:element name="SetFormsForListItemResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetFormsForListItemResult"
type="tns:DesignCheckerInformation"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**SetFormsForListItemResult:** This element is returned by the protocol server after attempting to map the **form template (.xsn) file** to the **content type** as specified by the protocol client request in the **SetFormsForListItem** request element. The form template (.xsn) file MUST be valid according to [MS-IPFF2] to be browser-enabled and mapped to a content type.

If the form template (.xsn) file was successfully mapped to the content type and also browser-enabled, the protocol server MUST send zero **Message** elements in the **Messages** element of the associated **MessagesResponse** element. <13>

If the attempt to **browser-enable** the form template (.xsn) file was unsuccessful, the protocol server MUST send one or more **Message** elements with the **MessageType** attribute set to "Error" in the **Messages** element of the associated **MessagesResponse** element. <14> For localization considerations regarding preferred message string language, see section 2.2.4.4.

If the attempt to browser-enable the form template (.xsn) file was successful, but the attempt to map the form template (.xsn) file to the content type was unsuccessful, the protocol server MUST return a **SOAP fault**.

The protocol server MUST NOT return **Message** elements with a **MessageType** of "Warning" or "Information" in a response to the **SetFormsForListItem** operation.

### 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.

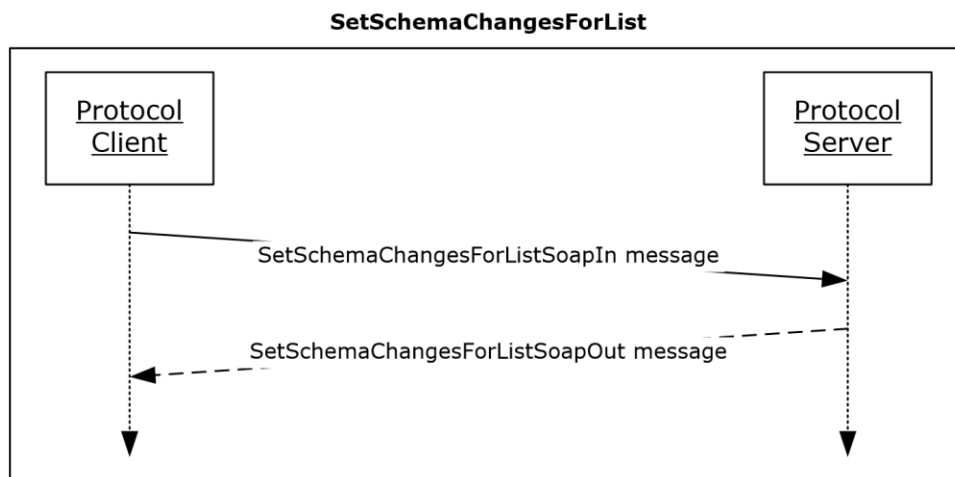
### 3.1.4.6 SetSchemaChangesForList

The **SetSchemaChangesForList** WSDL operation is used to change the **list schema** of the specified **list** by performing adds, deletes and updates to the **fields** of the list.

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

```
<wsdl:operation name="SetSchemaChangesForList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:SetSchemaChangesForListSoapIn"/>
  <wsdl:output message="tns:SetSchemaChangesForListSoapOut"/>
</wsdl:operation>
```

As shown in the following figure, the protocol client sends a **SetSchemaChangesForListSoapIn** request **SOAP message** and the protocol server responds with a **SetSchemaChangesForListSoapOut** response **SOAP message**.



**Figure 7: Exchange of SOAP messages for the SetSchemaChangesForList operation between the protocol client and protocol server**

#### 3.1.4.6.1 Messages

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

Message	Description
<b>SetSchemaChangesForListSoapIn</b>	The request WSDL message for the <b>SetSchemaChangesForList WSDL operation</b> .
<b>SetSchemaChangesForListSoapOut</b>	The response WSDL message for the <b>SetSchemaChangesForList WSDL operation</b> .

#### 3.1.4.6.1.1 SetSchemaChangesForListSoapIn

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

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/infopath/2007/formsServices/SetSchemaChangesForList
```

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

### 3.1.4.6.1.2 SetSchemaChangesForListSoapOut

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

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

### 3.1.4.6.2 Elements

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

Element	Description
<b>SetSchemaChangesForList</b>	The input data for the <b>SetSchemaChangesForList WSDL operation</b> .
<b>SetSchemaChangesForListResponse</b>	The result data for the <b>SetSchemaChangesForList WSDL operation</b> .

#### 3.1.4.6.2.1 SetSchemaChangesForList

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

```
<xs:element name="SetSchemaChangesForList" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="newFields">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:any/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="1" name="updateFields">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:any/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" maxOccurs="1" name="deleteFields">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:any/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

</xs:element>

**lcid:** A **language code identifier (LCID)**, as specified in [\[MS-LCID\]](#), identifying the preferred language of the protocol server for all returned **strings**. For more information, see [section 2.2.4.4](#).

**listGuid:** A **list identifier**, as specified in [\[MS-WSSTS\]](#) section 2.1.2.7.

**contentTypeid:** A **content type identifier**, as specified in [\[MS-WSSTS\]](#) section 2.1.2.8.1.

**newFields:** An **XML fragment** that defines the **CAML** representation for the **fields** to add in the **list**, as specified in [\[MS-LISTSWS\]](#) section 2.2.4.12.

**updateFields:** An XML fragment that defines the CAML representation for the fields to update in the list, as specified in [\[MS-LISTSWS\]](#) section 2.2.4.12.

**deleteFields:** An XML fragment that defines the CAML representation for the fields to delete in the list, as specified in [\[MS-LISTSWS\]](#) section 2.2.4.12.

### 3.1.4.6.2.2 SetSchemaChangesForListResponse

The **SetSchemaChangesForListResponse** element specifies the result data for the **SetSchemaChangesForList** **WSDL operation**.

```
<xs:element name="SetSchemaChangesForListResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetSchemaChangesForListResult">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:any/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**SetSchemaChangesForListResult:** An **XML fragment** returned by the protocol server after performing the requested **field** operations. It represents the **CAML** of the new fields added to the **list** by the protocol server.

The protocol server **MUST** return a **NewFieldNameMapping** XML fragment for every field for which the protocol server assigns a different **field internal name** than the field internal name specified in the **newFields** element of **SetSchemaChangesForList**.

The **NewFieldsNameMapping** XML fragment **MUST NOT** contain any **NewFieldNameMapping** XML fragments if the protocol server does not assign a new field internal name to any field added to the list.

The protocol server **MUST NOT** return **NewFieldNameMapping** XML fragments where the **Name** value does not match a field internal name specified in the **newFields** element of the **SetSchemaChangesForList** web method.

The protocol server **SHOULD** return a **SOAP fault** if any field operation fails, but the protocol server **MAY** [<15>](#) proceed with the remaining field operations requested by the protocol client.

### 3.1.4.6.3 Complex Types

None.

#### **3.1.4.6.4 Simple Types**

None.

#### **3.1.4.6.5 Attributes**

None.

#### **3.1.4.6.6 Groups**

None.

#### **3.1.4.6.7 Attribute Groups**

None.

### **3.1.5 Timer Events**

None.

### **3.1.6 Other Local Events**

None.

Preliminary

## 4 Protocol Examples

### 4.1 DesignCheckFormTemplate Operation Examples

This example shows the use of the **DesignCheckFormTemplate** operation.

#### 4.1.1 DesignCheckFormTemplate Request and Response with No Message Elements (No Issues Found)

This example details a request to the **DesignCheckFormTemplate** operation and the subsequent response with zero **Message** elements, indicating no browser compatibility or browser-optimization issues were found.

The following example is the request to the **DesignCheckFormTemplate** operation sent by the protocol client.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
  <SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/"> <SOAP-ENV:Body> <DesignCheckFormTemplate
xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
  <lcid>1033</lcid>
  <base64FormTemplate>...</base64FormTemplate>
  <applicationId>InfoPath 14</applicationId>
</DesignCheckFormTemplate>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The **lcid** element value of "1033" indicates the protocol client is requesting a response from the protocol server with strings suitable for display localized in English (United States).

The **base64FormTemplate** element value of ellipses ("...") indicate a form template (.xsn) file, encoded with **base64 encoding**.

The **applicationId** element value of "InfoPath 14" identifies the protocol client.

The following example is the response from the **DesignCheckFormTemplate** operation sent by the protocol server. Within the **Messages** element, it shows zero **Message** elements, indicating the form template (.xsn) file is compatible with the protocol server.

```
<?xml version="1.0" encoding="utf-8"?> <soap:Envelope
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"> <soap:Body> <DesignCheckFormTemplateResponse
xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
  <DesignCheckFormTemplateResult>

    <ApplicationId>InfoPath 14</ApplicationId>

    <Lcid>1033</Lcid>
    <Categories>
      <Category>
        <Id>BrowserOptimization</Id>
        <Label>Browser Optimization</Label>
        <HideWarningsByDefault>true</HideWarningsByDefault>
      </Category>
    </Category>
```

```

        <Id>BrowserCompatibility</Id>
        <Label>Browser Compatibility (Verified on server) </Label>
        <HideWarningsByDefault>>false</HideWarningsByDefault>
    </Category>
</Categories>
<Messages />
</DesignCheckFormTemplateResult>
</DesignCheckFormTemplateResponse>
</soap:Body>
</soap:Envelope>

```

The **ApplicationId** element value of "InfoPath 14" demonstrates that the protocol server retains the value from the **applicationId** element in the request message and includes that value in the response.

The **Lcid** element value of "1033" indicates the protocol server is returning a **string** suitable for display to an end user in English (United States).

#### 4.1.2 DesignCheckFormTemplate Response with Message Elements (One or More Issues Found)

This example details a response from the **DesignCheckFormTemplate** with **Message** elements, indicating browser compatibility or browser-optimization issues were found. For a typical request message, see section [4.1.1](#).

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <DesignCheckFormTemplateResponse
xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
      <DesignCheckFormTemplateResult>
        <ApplicationId>InfoPath 14</ApplicationId>
        <Lcid>1033</Lcid>
        <Categories>
          <Category>
            <Id>BrowserOptimization</Id>
            <Label>Browser Optimization</Label>
            <HideWarningsByDefault>>true</HideWarningsByDefault>
          </Category>
          <Category>
            <Id>BrowserCompatibility</Id>
            <Label>Browser Compatibility (Verified on server)</Label>
            <HideWarningsByDefault>>false</HideWarningsByDefault>
          </Category>
        </Categories>
        <Messages>
          <Message Id="107" Type="Warning" Feature="Controls"
Category="BrowserCompatibility">
            <ShortMessage>Custom task panes are not supported</ShortMessage>
            <DetailedMessage>Custom task panes are not supported by Infopath Forms Services.
The custom task Pane will not be displayed when users fill out a form in a Web
browser.</DetailedMessage>
            <SourceLocation FileName="manifest.xsf" />
          </Message>
          <Message Id="44" Type="Error" Feature="Controls" Category="BrowserCompatibility">
            <ShortMessage>Digital signatures on the entire form are not
supported</ShortMessage>
            <DetailedMessage>Digital signatures on the entire form are not supported by
Infopath Forms Services. Digital signature settings must be changed before the form can be
published. On the Tools menu, click Form Options, and then disable the digital signatures or
enable the digital signatures on specific data in the form.</DetailedMessage>
            <SourceLocation FileName="manifest.xsf" />
          </Message>
        </Messages>
      </DesignCheckFormTemplateResult>
    </DesignCheckFormTemplateResponse>
  </soap:Body>
</soap:Envelope>

```

```

        </Message>
      </Messages>
    </DesignCheckFormTemplateResult>
  </DesignCheckFormTemplateResponse>
</soap:Body>
</soap:Envelope>

```

The **ApplicationId** element value of "InfoPath 14" demonstrates the protocol server's pass-thru of the value from the request's **applicationId** element.

The **Lcid** element value of "1033" indicates the protocol server is returning a **string** suitable for display to an end user in English (United States).

The two **Message** elements demonstrate checks specified in section [2.2.4.4](#). One has the **Message Id** value "107", detailing a warning that does not prevent browser enabling a form template (.xsn) file. The other has the **Message Id** value "44", detailing an error that would prevent browser enabling a form template (.xsn) file.

## 4.2 BrowserEnableUserFormTemplate Operation Examples

This example shows the use of the **BrowserEnableUserFormTemplate** operation.

### 4.2.1 BrowserEnableUserFormTemplate Request/Response Indicating the Successful Browser Enabling of a Form Template (.xsn) File

This example details a request to the **BrowserEnableUserFormTemplate** operation and the subsequent response with zero **Message** elements, indicating the form template (.xsn) file was successfully browser-enabled.

The following example is the request to the **BrowserEnableUserFormTemplate** operation sent by the protocol client.

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
  xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAPSDK3="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
  ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <BrowserEnableUserFormTemplate
      xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
      <formTemplateLocation>http://contoso/DocLib/forms/template.xsn</formTemplateLocation>
    </BrowserEnableUserFormTemplate>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The **formTemplateLocation** element value of "http://contoso/DocLib/forms/template.xsn" represents the **URL** on the protocol server of a form template (.xsn) file that the protocol client is requesting to be browser-enabled.

The following example is the response from the **BrowserEnableUserFormTemplate** operation sent by the protocol server. Within the **Messages** element, it shows zero **Message** elements, indicating the form template (.xsn) file is compatible with the protocol server.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```



```

    <soap:Body>
      <BrowserEnableUserFormTemplateResponse
        xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
        <BrowserEnableUserFormTemplateResult>
          <Messages />
        </BrowserEnableUserFormTemplateResult>
      </BrowserEnableUserFormTemplateResponse>
    </soap:Body>
  </soap:Envelope>

```

### 4.3 SetFormsForListItem Operation Examples

This example shows the use of the **SetFormsForListItem** operation.

#### 4.3.1 SetFormsForListItem Request/Response Indicating Successful Operations on a List

This example details a request to the **SetFormsForListItem** operation and the subsequent response with zero **Message** elements, indicating no browser compatibility or browser-optimization issues were found, and there were no issues with mapping the form template (.xsn) file to the content type.

The following example is the request sent by the protocol client.

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
  xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAPSDK3="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
  ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SetFormsForListItem
      xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
      <lcid>1033</lcid>
      <base64FormTemplate>...</base64FormTemplate>
      <applicationId>InfoPath 14</applicationId>
      <listGuid>{6747CDB8-ADB5-4A5F-9323-AFCC3D329358}</listGuid>
      <contentTypeId>0x010500C8B78A06972AA34682872D813D9D0ED3</contentTypeId>
    </SetFormsForListItem>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The **lcid** element value of "1033" indicates the protocol client is requesting a response from the protocol server with **strings** suitable for display localized in English (United States).

The **base64FormTemplate** element value of ellipses ("...") indicates a base64 encoded form template (.xsn) file.

The **applicationID** element value of "InfoPath 14" identifies the protocol client.

The **listGuid** element value is a valid list identifier on the protocol server.

The **contentTypeId** element value is a valid content type identifier on the protocol server.

The following example is the response from the **SetFormsForListItem** operation sent by the protocol server. Within the **Messages** element, it shows zero **Message** elements, indicating the form template (.xsn) file is compatible with the protocol server.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">

```

```

<soap:Body>
  <SetFormsForListItemResponse
    xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
    <SetFormsForListItemResult>
      <ApplicationId>InfoPath 14</ApplicationId>
      <Lcid>1033</Lcid>
      <Categories>
        <Category>
          <Id>BrowserOptimization</Id>
          <Label>Browser Optimization</Label>
          <HideWarningsByDefault>true</HideWarningsByDefault>
        </Category>
        <Category>
          <Id>BrowserCompatibility</Id>
          <Label>Browser Compatibility (Verified on server)</Label>
          <HideWarningsByDefault>>false</HideWarningsByDefault>
        </Category>
      </Categories>
      <Messages />
    </SetFormsForListItemResult>
  </SetFormsForListItemResponse>
</soap:Body>
</soap:Envelope>

```

The **ApplicationId** element value of "InfoPath 14" demonstrates the protocol server's pass-through of the value from the request's **applicationId** element.

The **Lcid** element value of "1033" indicates the protocol server is returning **strings** suitable for display to an end user in English (United States).

#### 4.3.2 SetFormsForListItem Response with Message Elements (One or More Issues Found)

This example details a response from the **SetFormsForListItem** operation with **Message** elements, indicating there was an issue with mapping the form template (.xsn) file to the content type. For a typical request message, see section [4.3.1](#).

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetFormsForListItemResponse
      xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
      <SetFormsForListItemResult>
        <ApplicationId>InfoPath 14</ApplicationId>
        <Lcid>1033</Lcid>
        <Categories>
          <Category>
            <Id>BrowserOptimization</Id>
            <Label>Browser Optimization</Label>
            <HideWarningsByDefault>true</HideWarningsByDefault>
          </Category>
          <Category>
            <Id>BrowserCompatibility</Id>
            <Label>Browser Compatibility (Verified on server)</Label>
            <HideWarningsByDefault>>false</HideWarningsByDefault>
          </Category>
        </Categories>
        <Messages>
          <Message Id="278" Type="Error" Feature="Controls" Category="BrowserCompatibility">
            <ShortMessage>Invalid location for the xsn being published. </ShortMessage>
            <DetailedMessage>Invalid location for the xsn being published. </DetailedMessage>
          </Message>
        </Messages>
      </SetFormsForListItemResult>
    </SetFormsForListItemResponse>
  </soap:Body>
</soap:Envelope>

```

```

    </Messages>
  </SetFormsForListItemResult>
</SetFormsForListItemResponse>
</soap:Body>
</soap:Envelope>

```

The **Message** element demonstrates checks specified in section [2.2.4.4](#). It has the **Message Id** value "278", detailing an error that would prevent mapping the form template (.xsn) file to the content type.

## 4.4 GetListFormLocation Operation Examples

This example shows the use of the **GetListFormLocation** operation.

### 4.4.1 GetListFormLocation Request/Response

This example details a request to the **GetListFormLocation** operation and the subsequent response pointing to the location of a form template (.xsn) file on the protocol server that is mapped to the content type requested by the protocol client.

The following example is the request to the **GetListFormLocation** operation sent by the protocol client.

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAPSDK3="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetListFormLocation
xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
      <lcid>1033</lcid>
      <listGuid>{6747CDB8-ADB5-4A5F-9323-AFCC3D329358}</listGuid>
      <contentTypeId>0x010500C8B78A06972AA34682872D813D9D0ED3</contentTypeId>
      <checkDesignPermissions>true</checkDesignPermissions>
    </GetListFormLocation>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The **checkDesignPermissions** element value indicates that the protocol server checks for **ManageLists** WSS rights.

The following example is the response from the **GetListFormLocation** operation sent by the protocol server.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetListFormLocationResponse
xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
      <GetListFormLocationResult>http://contoso/Lists/Links/Link/template.xsn</GetListFormLocationR
esult>
    </GetListFormLocationResponse>
  </soap:Body>
</soap:Envelope>

```

The **GetListFormLocationResult** element value of "http://contoso/Lists/Links/Link/template.xsn" represents the **URL** of a form template (.xsn) file on the protocol server that is mapped to the content type specified by the client protocol in the request.

## 4.5 SetSchemaChangesForList Operation Examples

This example shows the use of the **SetSchemaChangesForList** operation.

### 4.5.1 SetSchemaChangesForList Request/Response Indicating Successful Operations on a List

This example details a request to the **SetSchemaChangesForList** operation and the subsequent response indicating the new field internal name mappings returned by the protocol server.

The following example is the request to the **SetSchemaChangesForList** operation sent by the protocol client.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAPSDK3="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SetSchemaChangesForList
xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
      <lcid>1033</lcid>
      <listGuid>{3bbd50d4-524e-405a-b05f-22c15baac9a5}</listGuid>
      <contentTypeId>0x010041CAB86258A82E4BAFC7F3A9A8B00AA0</contentTypeId>
      <newFields>
        <Fields>
          <Field Type="Text" Name="title" DisplayName="title" MaxLength="255" Required="FALSE"
><Default></Default></Field>
          <Field Type="Note" Name="field6" DisplayName="field6" AppendOnly="FALSE"
RichText="TRUE" RichTextMode="FullHtml" Required="FALSE" ></Field>
          <Field Type="Choice" Name="field7" DisplayName="field7" Required="FALSE"
FillInChoice="FALSE" ><Default></Default><CHOICES><CHOICE>Enter Choice
#1</CHOICE><CHOICE>Enter Choice #2</CHOICE><CHOICE>Enter Choice #3</CHOICE></CHOICES></Field>
        </Fields>
      </newFields>
      <updateFields>
        <Fields>
          <Field Type="Text" Name="Title" DisplayName="Title" MaxLength="255" Required="TRUE"
><Default></Default></Field><Field Type="Text" Name="field4" DisplayName="field4"
MaxLength="255" Required="FALSE" ><Default></Default></Field>
        </Fields>
      </updateFields>
      <deleteFields>
        <Fields>
          <Field Name="field1" ></Field><Field Name="field2" ></Field>
        </Fields>
      </deleteFields>
    </SetSchemaChangesForList>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The **newFields**, **updateField**, and **deleteFields** element values represent the field operations that the protocol server will attempt to perform on the **list**.

The following example is the response from the **SetSchemaChangesForList** operation sent by the protocol server.

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetSchemaChangesForListResponse
xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
      <SetSchemaChangesForListResult>
        <Fields>
          <newFields>
            <Field Name="title" NewName="title0"></Field>
          </newFields>
        </Fields>
      </SetSchemaChangesForListResult>
    </SetSchemaChangesForListResponse>
  </soap:Body>
</soap:Envelope>

```

The **NewName** element value of "title0" indicates that the protocol server is returning the new field internal name assigned for the requested field **Name** element value of "title".

## 4.6 GetUserCodeDeploymentDependencies Operation Examples

This example shows the use of the **GetUserCodeDeploymentDependencies** operation.

### 4.6.1 GetUserCodeDeploymentDependencies Request/Response Indicating that the Form Template (.xsn) File with Code Can Be Browser-Enabled as a Sandboxed Solution

This example details a request to the **GetUserCodeDeploymentDependencies** operation and the subsequent response indicating that the form template (.xsn) file can be browser-enabled as a sandboxed solution.

The following example is the request to the **GetUserCodeDeploymentDependencies** operation sent by the protocol client.

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<SOAP-ENV:Envelope xmlns:SOAPSDK1="http://www.w3.org/2001/XMLSchema"
xmlns:SOAPSDK2="http://www.w3.org/2001/XMLSchema-instance"
xmlns:SOAPSDK3="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-
ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <GetUserCodeDeploymentDependencies
xmlns='http://schemas.microsoft.com/office/infopath/2007/formsServices'>
<siteCollectionLocation>http://contoso/site</siteCollectionLocation>
    </GetUserCodeDeploymentDependencies>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The **siteCollectionLocation** element value of "http://contoso/site" represents the **URL** of the site collection that the protocol client requests to verify that sandboxed solution activation is permitted.

The following example is the response from the **GetUserCodeDeploymentDependencies** operation sent by the protocol server. The **GetUserCodeDeploymentDependenciesResponse** element has the value "ActivationAllowed", which indicates that the form template (.xsn) file with code can be browser-enabled as a sandboxed solution.

```

<?xml version="1.0" encoding="utf-8"?>

```

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetUserCodeDeploymentDependenciesResponse
xmlns="http://schemas.microsoft.com/office/infopath/2007/formsServices">
<GetUserCodeDeploymentDependenciesResult>ActivationAllowed</GetUserCodeDeploymentDependencies
Result>
    </GetUserCodeDeploymentDependenciesResponse>
  </soap:Body>
</soap:Envelope>
```

Preliminary

## 5 Security

### 5.1 Security Considerations for Implementers

In addition to the security considerations applicable to the underlying protocols, a protocol server implementation of **DesignCheckFormTemplate** operation could involve expensive processing operations that need to be appropriately protected against denial of service attacks. The implementer could use an authorization policy to ensure that the **Web service** protocol cannot be used to mount this type of attack.

A protocol server implementation considers if it needs to execute compiled or interpreted code on the protocol server during the Forms Services Design and Activation Web Service Protocol. This is dangerous, because it can allow any user to use this protocol to execute un-trusted code in the server process.

### 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" encoding="UTF-8"?>
<wsdl:definitions xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
xmlns:tns="http://schemas.microsoft.com/office/infopath/2007/formsServices"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/office/infopath/2007/formsServices"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:documentation>Forms Service</wsdl:documentation>
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/office/infopath/2007/formsServices">
      <xs:element name="BrowserEnableUserFormTemplate">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="formTemplateLocation"
type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="BrowserEnableUserFormTemplateResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1"
name="BrowserEnableUserFormTemplateResult" type="tns:MessagesResponse"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:complexType name="MessagesResponse">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="Messages" type="tns:Messages"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="Messages">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="Message" nillable="true"
type="tns:Message"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="Message">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="ShortMessage" type="xs:string"/>
          <xs:element minOccurs="0" maxOccurs="1" name="DetailedMessage" type="xs:string"/>
          <xs:element minOccurs="0" maxOccurs="1" name="SourceLocation"
type="tns:SourceLocation"/>
        </xs:sequence>
        <xs:attribute name="Id" type="xs:int" use="required"/>
        <xs:attribute name="Type" type="tns:MessageType" use="required"/>
        <xs:attribute name="Feature" type="tns:Feature" use="required"/>
        <xs:attribute name="Category" type="tns:Category" use="required"/>
      </xs:complexType>
      <xs:complexType name="SourceLocation">
        <xs:attribute name="ControlId" type="xs:string"/>
        <xs:attribute name="FileName" type="xs:string"/>
        <xs:attribute name="LineNumber" type="xs:int"/>
        <xs:attribute name="LinePosition" type="xs:int"/>
      </xs:complexType>
      <xs:simpleType name="MessageType">
        <xs:restriction base="xs:string">
          <xs:enumeration value="Error"/>
          <xs:enumeration value="Information"/>
          <xs:enumeration value="Warning"/>
        </xs:restriction>
    </xs:schema>
  </wsdl:types>

```



```

</xs:simpleType>
<xs:simpleType name="Feature">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GenericXsf"/>
    <xs:enumeration value="XsfSchema"/>
    <xs:enumeration value="GenericXsl"/>
    <xs:enumeration value="GenericXPath"/>
    <xs:enumeration value="TemplateXml"/>
    <xs:enumeration value="Layout"/>
    <xs:enumeration value="Controls"/>
    <xs:enumeration value="BusinessLogic"/>
    <xs:enumeration value="Calculations"/>
    <xs:enumeration value="Validation"/>
    <xs:enumeration value="DigitalSignatures"/>
    <xs:enumeration value="DataAdapters"/>
    <xs:enumeration value="Submit"/>
    <xs:enumeration value="Views"/>
    <xs:enumeration value="Rules"/>
    <xs:enumeration value="ConditionalFormatting"/>
    <xs:enumeration value="VersionUpgrade"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="UserSolutionActivationStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ActivationAllowed"/>
    <xs:enumeration value="ActivationDenied"/>
    <xs:enumeration value="UserCodeServiceNotAvailable"/>
    <xs:enumeration value="ServiceQuotaExceeded"/>
    <xs:enumeration value="InsufficientUserPermissions"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Category">
  <xs:restriction base="xs:string">
    <xs:enumeration value="BrowserOptimization"/>
    <xs:enumeration value="BrowserCompatibility"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="DesignCheckFormTemplate">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="base64FormTemplate"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="applicationId" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DesignCheckFormTemplateResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DesignCheckFormTemplateResult"
type="tns:DesignCheckerInformation"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetFormsForListItem">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="base64FormTemplate"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="applicationId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="SetFormsForListItemResponse">
  <xs:complexType>

```

```

        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="SetFormsForListItemResult"
type="tns:DesignCheckerInformation"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetListFormLocation">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
          <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
          <xs:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="xs:string"/>
          <xs:element minOccurs="1" maxOccurs="1" name="checkDesignPermissions"
type="xs:boolean"/>
          <xs:element minOccurs="1" maxOccurs="1" name="checkCustomFormEnabled"
type="xs:boolean"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetListFormLocationResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="GetListFormLocationResult"
type="xs:string"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetSchemaChangesForList">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="lcid" type="xs:int"/>
          <xs:element minOccurs="1" maxOccurs="1" name="listGuid" type="xs:string"/>
          <xs:element minOccurs="1" maxOccurs="1" name="contentTypeId" type="xs:string"/>
          <xs:element minOccurs="0" maxOccurs="1" name="newFields">
            <xs:complexType mixed="true">
              <xs:sequence>
                <xs:any/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element minOccurs="0" maxOccurs="1" name="updateFields">
            <xs:complexType mixed="true">
              <xs:sequence>
                <xs:any/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element minOccurs="0" maxOccurs="1" name="deleteFields">
            <xs:complexType mixed="true">
              <xs:sequence>
                <xs:any/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="SetSchemaChangesForListResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="SetSchemaChangesForListResult">
            <xs:complexType mixed="true">
              <xs:sequence>
                <xs:any/>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

```

</xs:element>
<xs:element name="GetUserCodeDeploymentDependencies">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="siteCollectionLocation"
type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetUserCodeDeploymentDependenciesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1"
name="GetUserCodeDeploymentDependenciesResult" type="tns:UserSolutionActivationStatus"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="DesignCheckerInformation">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ApplicationId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Lcid" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Categories" type="tns:Categories"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Messages" type="tns:Messages"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="Categories">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Category" nillable="true"
type="tns:CategoryType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="CategoryType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="Id" type="tns:Category"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Label" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="HideWarningsByDefault"
type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
</xs:schema>
</wsdl:types>
<wsdl:portType name="FormsServicesWebServiceSoap">
  <wsdl:operation name="BrowserEnableUserFormTemplate">
    <wsdl:input message="tns:BrowserEnableUserFormTemplateSoapIn"/>
    <wsdl:output message="tns:BrowserEnableUserFormTemplateSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="DesignCheckFormTemplate">
    <wsdl:input message="tns:DesignCheckFormTemplateSoapIn"/>
    <wsdl:output message="tns:DesignCheckFormTemplateSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="SetFormsForListItem">
    <wsdl:input message="tns:SetFormsForListItemSoapIn"/>
    <wsdl:output message="tns:SetFormsForListItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetListFormLocation">
    <wsdl:input message="tns:GetListFormLocationSoapIn"/>
    <wsdl:output message="tns:GetListFormLocationSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="SetSchemaChangesForList">
    <wsdl:input message="tns:SetSchemaChangesForListSoapIn"/>
    <wsdl:output message="tns:SetSchemaChangesForListSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetUserCodeDeploymentDependencies">
    <wsdl:input message="tns:GetUserCodeDeploymentDependenciesSoapIn"/>
    <wsdl:output message="tns:GetUserCodeDeploymentDependenciesSoapOut"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="FormsServicesWebServiceSoap" type="tns:FormsServicesWebServiceSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>

```

```

    <wsdl:operation name="BrowserEnableUserFormTemplate">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/BrowserEnableUser
FormTemplate" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="DesignCheckFormTemplate">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/DesignCheckFormTe
mplate" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetFormsForListItem">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/SetFormsForListIt
em" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetListFormLocation">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/GetListFormLocati
on" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetSchemaChangesForList">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/SetSchemaChangesF
orList" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUserCodeDeploymentDependencies">
      <soap:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/GetUserCodeDeploy
mentDependencies" style="document"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="FormsServicesWebServiceSoap12" type="tns:FormsServicesWebServiceSoap">
    <soap12:binding transport="http://schemas.xmlsoap.org/soap/http"/>

```

```

    <wsdl:operation name="BrowserEnableUserFormTemplate">
      <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/BrowserEnableUser
FormTemplate" style="document"/>
        <wsdl:input>
          <soap12:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
          <soap12:body use="literal"/>
        </wsdl:output>
      </wsdl:operation>
      <wsdl:operation name="DesignCheckFormTemplate">
        <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/DesignCheckFormTe
mplate" style="document"/>
          <wsdl:input>
            <soap12:body use="literal"/>
          </wsdl:input>
          <wsdl:output>
            <soap12:body use="literal"/>
          </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="SetFormsForListItem">
          <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/SetFormsForListIt
em" style="document"/>
            <wsdl:input>
              <soap12:body use="literal"/>
            </wsdl:input>
            <wsdl:output>
              <soap12:body use="literal"/>
            </wsdl:output>
          </wsdl:operation>
          <wsdl:operation name="GetListFormLocation">
            <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/GetListFormLocati
on" style="document"/>
              <wsdl:input>
                <soap12:body use="literal"/>
              </wsdl:input>
              <wsdl:output>
                <soap12:body use="literal"/>
              </wsdl:output>
            </wsdl:operation>
            <wsdl:operation name="SetSchemaChangesForList">
              <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/SetSchemaChangesF
orList" style="document"/>
                <wsdl:input>
                  <soap12:body use="literal"/>
                </wsdl:input>
                <wsdl:output>
                  <soap12:body use="literal"/>
                </wsdl:output>
              </wsdl:operation>
              <wsdl:operation name="GetUserCodeDeploymentDependencies">
                <soap12:operation
soapAction="http://schemas.microsoft.com/office/infopath/2007/formsServices/GetUserCodeDeploy
mentDependencies" style="document"/>
                  <wsdl:input>
                    <soap12:body use="literal"/>
                  </wsdl:input>
                  <wsdl:output>
                    <soap12:body use="literal"/>
                  </wsdl:output>
                </wsdl:operation>
              </wsdl:binding>
            <wsdl:message name="BrowserEnableUserFormTemplateSoapIn">
              <wsdl:part name="parameters" element="tns:BrowserEnableUserFormTemplate"/>
            </wsdl:message>
          </wsdl:binding>
        </wsdl:binding>
      </wsdl:binding>
    </wsdl:binding>
  </wsdl:binding>
</wsdl:binding>

```

```
</wsdl:message>
<wsdl:message name="BrowserEnableUserFormTemplateSoapOut">
  <wsdl:part name="parameters" element="tns:BrowserEnableUserFormTemplateResponse"/>
</wsdl:message>
<wsdl:message name="DesignCheckFormTemplateSoapIn">
  <wsdl:part name="parameters" element="tns:DesignCheckFormTemplate"/>
</wsdl:message>
<wsdl:message name="DesignCheckFormTemplateSoapOut">
  <wsdl:part name="parameters" element="tns:DesignCheckFormTemplateResponse"/>
</wsdl:message>
<wsdl:message name="GetListFormLocationSoapIn">
  <wsdl:part name="parameters" element="tns:GetListFormLocation"/>
</wsdl:message>
<wsdl:message name="GetListFormLocationSoapOut">
  <wsdl:part name="parameters" element="tns:GetListFormLocationResponse"/>
</wsdl:message>
<wsdl:message name="GetUserCodeDeploymentDependenciesSoapIn">
  <wsdl:part name="parameters" element="tns:GetUserCodeDeploymentDependencies"/>
</wsdl:message>
<wsdl:message name="GetUserCodeDeploymentDependenciesSoapOut">
  <wsdl:part name="parameters" element="tns:GetUserCodeDeploymentDependenciesResponse"/>
</wsdl:message>
<wsdl:message name="SetFormsForListItemSoapIn">
  <wsdl:part name="parameters" element="tns:SetFormsForListItem"/>
</wsdl:message>
<wsdl:message name="SetFormsForListItemSoapOut">
  <wsdl:part name="parameters" element="tns:SetFormsForListItemResponse"/>
</wsdl:message>
<wsdl:message name="SetSchemaChangesForListSoapIn">
  <wsdl:part name="parameters" element="tns:SetSchemaChangesForList"/>
</wsdl:message>
<wsdl:message name="SetSchemaChangesForListSoapOut">
  <wsdl:part name="parameters" element="tns:SetSchemaChangesForListResponse"/>
</wsdl:message>
</wsdl:definitions>
```

Prelim

## 7 Appendix B: Product Messages

The contents of this appendix comprise messages returned to the protocol client by the protocol server.

### 7.1 Messages for Office InfoPath 2007 Forms

Messages described in this section are generated by Microsoft Office SharePoint Server 2007, Microsoft SharePoint Server 2010, and Microsoft SharePoint Server 2013 when **design checking a form template (.xsn) file** as specified in [\[MS-IPFF\]](#).

#### 7.1.1 Message Elements of Type "Error"

ID	Category	Feature	Message	Description
1	BrowserCompatibility	Controls	The form template is not browser-compatible. It might be possible to correct the problem by opening the form template in Microsoft InfoPath, and then republishing it.	The protocol server returns this error message when the form template file cannot be opened. This error will occur when the file is invalid or corrupt.
5	BrowserCompatibility	Controls	Error loading form code assembly: <i>[name of the user code module]</i> .	As specified in <a href="#">[MS-IPFF]</a> section 2.2.147.50
6	BrowserCompatibility	Controls	A rule references a button that is missing from the view.	The protocol server returns this error message when a rule is associated with a button control that is not part of the form view.
12	BrowserCompatibility	Controls	Button <i>[button name]</i> has a value of the xd:action attribute that is not supported in browser-enabled form templates.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.2.1.
13	BrowserCompatibility	Controls	Expected anchor tag is missing.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.12.
14	BrowserCompatibility	Controls	List Box control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.13.
15	BrowserCompatibility	Controls	Choice Section control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.21.
16	BrowserCompatibility	Controls	Combo Box control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.21.
18	BrowserCompatibility	Controls	<i>[Control Name]</i> control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.108.
21	BrowserCompatibility	Controls	Picture control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.22.
22	BrowserCompatibility	Controls	Ink Picture control is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.1.21.

ID	Category	Feature	Message	Description
23	BrowserCompatibility	Controls	Horizontal Region control is not supported.	As specified in [MS-IPFF] section 2.4.1.21.
24	BrowserCompatibility	Controls	Master/detail control is not supported.	As specified in [MS-IPFF] section 2.4.2
25	BrowserCompatibility	Controls	Multiple-Selection List Box control is not supported.	As specified in [MS-IPFF] section 2.4.1.21.
26	BrowserCompatibility	Controls	Recursive control not supported.	As specified in [MS-IPFF] section 2.4.1.22.
27	BrowserCompatibility	Controls	Choice Section control is not supported.	As specified in [MS-IPFF] section 2.4.1.22.
28	BrowserCompatibility	Controls	Scrolling Region control is not supported.	As specified in [MS-IPFF] section 2.4.1.21.
30	BrowserCompatibility	Controls	Vertical text is not supported.	As specified in [MS-IPFF] section 2.4.1.21.
31	BrowserCompatibility	Controls	Controls that repeat horizontally are not supported.	As specified in [MS-IPFF] section 2.4.1.21.
40	BrowserCompatibility	Controls	Encountered an encoded identifier [ <i>Identifier name</i> ]. Encoded identifiers are not supported.	The protocol server returns this error message when parsing the cascading style sheet (CSS) associated with a form view and the CSS contains an encoded identifier.
45	BrowserCompatibility	Controls	The form locale [ <i>locale identifier</i> ] is not a valid language identifier. Assign a valid locale and try again.	As specified in [MS-IPFF] section 2.2.147.9.
46	BrowserCompatibility	Controls	An XSL file is missing from the form template.	As specified in [MS-IPFF] section 2.2.129.
57	BrowserCompatibility	Controls	Linked images are not supported by InfoPath Forms Services. To fix this problem, make the image a part of the form template. The following image was found in view [ <i>view name</i> ]: [ <i>image name</i> ].	The protocol server returns this error message when a form view contains an <b>img</b> element with a <b>href</b> attribute with a value of an absolute URL.
58	BrowserCompatibility	Controls	Unexpected image tag encountered. It is missing a required href attribute.	The protocol server returns this error message when detecting an <b>img</b> element without a <b>href</b> attribute in a form view.
59	BrowserCompatibility	Controls	Only the .png, .gif, and .jpg graphics file formats are supported.	The protocol server returns this error message when the <b>href</b> attribute of an <b>img</b> element in a form view refers a file with an unsupported extension. The Microsoft Office InfoPath 2007 supports the file extensions.png,



ID	Category	Feature	Message	Description
				.gif, and .jpg.
60	BrowserCompatibility	Controls	The data source [ <i>data source name</i> ] referenced in the form template is not valid or cannot be found.	As specified in [MS-IPFF] section 2.4.3.9.2.
61	BrowserCompatibility	Controls	Invalid format for location attribute [ <i>attribute value</i> ].	As specified in [MS-IPFF] section 2.2.61.
62	BrowserCompatibility	Controls	An eval expression used in the form has invalid arguments.	As specified in [MS-IPFF] section 2.4.3.6.2.
63	BrowserCompatibility	Controls	The XPath [ <i>xpath expression</i> ] is invalid. [ <i>error details</i> ]	As specified in <a href="#">[XPATH]</a> .
64	BrowserCompatibility	Controls	The following file is not a valid Xml Schema: [ <i>name of the schema file</i> ]	As specified in <a href="#">[XMLSCHEMA1]</a> .
67	BrowserCompatibility	Controls	The following file is either missing or is not part of included in the form template: [ <i>filename</i> ]. To add a file to the form template in design mode, use the Resource Files dialog box on the Tools menu, and then add the file.	As specified in [MS-IPFF] section 2.2.98.
68	BrowserCompatibility	Controls	Multiple xsl:templates found with name corresponding to this xsl:call-template. Using the first xsl:template found.	The protocol server returns this error message when a form view file contains more than one XSL <b>template</b> element with the same value for the <b>name</b> attribute.
69	BrowserCompatibility	Controls	Did not find an xsl:template with the same name as this xsl:call-template. Ignoring the xsl:call-template.	As specified in <a href="#">[W3C-XSLT]</a> .
71	BrowserCompatibility	Controls	Multiple xsl:templates found with mode corresponding to this xsl:apply-templates. Using the first xsl:template found.	The protocol server returns this error message when a form view file contains an <b>apply-templates</b> element that can find one or more <b>xsl:template</b> element to apply with the same <b>mode</b> attribute.
72	BrowserCompatibility	Controls	The xsl:stylesheet element had multiple xsl:template elements with no mode attribute. This is not supported. Using only the first of these	As specified in [MS-IPFF] section 2.4.1.2.

ID	Category	Feature	Message	Description
			xsl:templates.	
73	BrowserCompatibility	Controls	The mode of this xsl:apply-templates element does not match the mode attribute of any xsl:template element.	As specified in [MS-IPFF] sections 2.4.1.15 and 2.4.1.18.
74	BrowserCompatibility	Controls	Could not find an xsl:template without a mode inside xsl:stylesheet.	As specified in [MS-IPFF] section 2.4.1.2 or in [MS-IPFF2] section 2.4.1.2.
75	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:apply-imports'.	As specified in [MS-IPFF] section 2.4.1 or in [MS-IPFF2] section 2.4.1.
76	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:import'.	As specified in [MS-IPFF] section 2.4.1.
77	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:include'.	As specified in [MS-IPFF] section 2.4.1.
79	BrowserCompatibility	Controls	An unexpected error has occurred while verifying the form template.	As specified in [MS-IPFF] section 2.1.
87	BrowserCompatibility	Calculations	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.2.146, <b>target</b> and <b>expression</b> attributes.
88	BrowserCompatibility	ConditionalFormatting	Unsupported expression	As specified in [MS-IPFF] section 2.4.1.1.
89	BrowserCompatibility	Controls	Unsupported expression	As specified in [MS-IPFF] section 2.4.1.1.
90	BrowserCompatibility	DataAdapters	Unsupported expression	As specified in [MS-IPFF] section 2.2.44.
91	BrowserCompatibility	DigitalSignatures	Unsupported expression	As specified in [MS-IPFF] section 2.2.126, <b>data</b> and <b>signatureLocation</b> attributes.
92	BrowserCompatibility	GenericXsl	Unsupported expression	As specified in [MS-IPFF] section 2.4.1.
93	BrowserCompatibility	Rules	Unsupported expression	As specified in [MS-IPFF] section 2.2.133.
94	BrowserCompatibility	Controls	Unsupported expression	As specified in [MS-IPFF] section 2.2.63, <b>expression</b> and <b>expressionContext</b> attributes.
95	BrowserCompatibility	Controls	Unsupported expression	As specified in [MS-IPFF] sections

ID	Category	Feature	Message	Description
	bility			2.2.124 and 2.2.107.
97	BrowserCompatibility	Controls	Browser-enabled form templates must have at least one browser-compatible view.	As specified in [MS-IPFF] section 2.2.122.
98	BrowserCompatibility	Controls	<i>[Detailed error message the XML Processor]</i>	As specified in [MS-IPFF] section 2.2.
99	BrowserCompatibility	Controls	Unexpected schema validation error: <i>[Schema Error]</i>	As specified in [MS-IPFF] section 2.2.60.
100	BrowserCompatibility	Controls	<i>[Detailed error message the XML Processor]</i>	As specified in [MS-IPFF] section 2.2.
102	BrowserCompatibility	Controls	HWS data connections are not supported.	As specified in [MS-IPFF] section 2.2.40.
103	BrowserCompatibility	Controls	HWS task pane is not supported.	As specified in [MS-IPFF] section 2.2.87.
111	BrowserCompatibility	Controls	The form template is not browser-compatible, perhaps as a result of modifications made outside of Microsoft InfoPath. It might be possible to correct the problem by republishing the form template from within Microsoft InfoPath.	As specified in [MS-IPFF] section 2.2.147.8, <b>runtimeCompatibility</b> attribute.
112	BrowserCompatibility	Controls	Character expected. Found an empty value.	As specified in [MS-IPFF] section 2.4.1.
113	BrowserCompatibility	Controls	Character expected. Found a string value.	As specified in [MS-IPFF] section 2.4.1.1.
114	BrowserCompatibility	Controls	Double value expected. <i>[value]</i> is not a valid double.	As specified in [MS-IPFF] section 2.4.1.
115	BrowserCompatibility	Controls	Invalid Uri found as value of href attribute of xsl:import.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>href</b> attribute of an <b>xsl:import</b> element uses an invalid URI value.
116	BrowserCompatibility	Controls	Invalid Uri found as value of href attribute of xsl:include.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>href</b> attribute of an <b>xsl:include</b> element uses an invalid URI value.
117	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for grouping-size attribute of xsl:number. The value must be a positive integer value.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>grouping-size</b> attribute <b>xsl:number</b> element has an invalid value.

ID	Category	Feature	Message	Description
118	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for letter-value attribute of xsl:number. Valid values are: 'alphabetic' and 'traditional'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>letter-value</b> attribute of an <b>xsl:number</b> element has a value different from "alphabetic" or "traditional".
119	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for level attribute of xsl:number. Valid values are: 'single', 'multiple' and 'any'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>level</b> attribute of an <b>xsl:number</b> element has a value different from "single", "multiple" or "any".
120	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for case-order attribute of xsl:sort. Valid values are: 'upper-first' and 'lower-first'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>case-order</b> attribute of an <b>xsl:sort</b> element has a value different from "upper-first" or "lower-first".
121	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for order attribute of xsl:sort. Valid values are: 'ascending' and 'descending'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>order</b> attribute of an <b>xsl:sort</b> element has a value different from "ascending" or "descending".
122	BrowserCompatibility	Controls	xsl:import encountered after other xsl constructs.	The protocol server returns this error message when parsing the XSL of a form view file. The parser found an <b>xsl:import</b> element that is not at the top level of the XSL document.
123	BrowserCompatibility	Controls	Integer value expected. <i>[value]</i> is not a valid integer.	The protocol server returns this error message when parsing the XSL of a form view file. The parser found an invalid value where an integer value was expected.
124	BrowserCompatibility	Controls	The qualified name <i>[name]</i> is not valid.	As specified in [MS-IPFF] section 2.4.1.
125	BrowserCompatibility	Controls	The qualified name <i>[original value]</i> is not a valid. Using qualified name <i>[replace value]</i> .	As specified in [MS-IPFF] section 2.4.1.
126	BrowserCompatibility	Controls	Xsl for view <i>[view name]</i> is not a valid xml file. <i>[Detailed error message the XML Processor]</i>	As specified in [MS-IPFF] section 2.4.
127	BrowserCompatibility	Controls	Multiple xsl:otherwise elements in an xsl:when are not supported.	As specified in [W3C-XSLT] section 9.2.
128	BrowserCompatibility	Controls	xsl:template found with no match attribute and no name attribute. At least	As specified in [W3C-XSLT] section 5.3, 6

ID	Category	Feature	Message	Description
			one must be specified.	
129	BrowserCompatibility	Controls	If a xsl:template element does not have a match attribute, it must not have a mode attribute.	As specified in [W3C-XSLT] section 5.7
130	BrowserCompatibility	Controls	xsl:otherwise element found without a corresponding xsl:when element.	As specified in [W3C-XSLT] section 9.2
131	BrowserCompatibility	Controls	xsl:param encountered after other xsl constructs.	As specified in [W3C-XSLT] section 15
132	BrowserCompatibility	Controls	The prefix <i>[namespace prefix]</i> is not declared in the current scope.	As specified in [W3C-XSLT] section 2.1
133	BrowserCompatibility	Controls	Unexpected attribute <i>{[namespace]}[attribute local-name]</i> encountered.	As specified in [W3C-XSLT] section 2.1
134	BrowserCompatibility	Controls	Unexpected element <i>{[namespace]}[element local-name]</i> encountered.	As specified in [W3C-XSLT] section 2.1
135	BrowserCompatibility	Controls	Unexpected node encountered.	As specified in [W3C-XSLT] section 2.1
136	BrowserCompatibility	Controls	Unexpected type of node <i>[node type]</i> encountered.	As specified in [W3C-XSLT] section 2.1
137	BrowserCompatibility	Controls	Unexpected child element for xsl:for-each. Only xsl:sort elements are allowed.	As specified in [W3C-XSLT] section 8
138	BrowserCompatibility	Controls	Unsupported value: <i>[value]</i> found for version attribute of xsl:stylesheet.	As specified in [MS-IPFF] section 2.4.1.2.
139	BrowserCompatibility	Controls	Unexpected text encountered.	As specified in [MS-IPFF] section 2.4.1.22.
140	BrowserCompatibility	Controls	Unexpected value: <i>[value]</i> . Expected 'yes' or 'no'.	As specified in [W3C-XSLT] section B
141	BrowserCompatibility	Controls	Entity References are not supported.	As specified in [W3C-XSLT] section 2.4.
142	BrowserCompatibility	Controls	This element does not permit content if the select attribute is specified.	As specified in [W3C-XSLT] section 2.4.
143	BrowserCompatibility	Controls	Unexpected xsl:when element found after an xsl:otherwise.	As specified in [W3C-XSLT] section 9.2.
144	BrowserCompatibility	Controls	The form definition (.xsf) file has an invalid errorCondition -- errorMessage tag is	As specified in [MS-IPFF] section 2.2.63, <b>errorCondition</b> element.

ID	Category	Feature	Message	Description
			missing.	
145	BrowserCompatibility	Controls	The form definition (.xsf) file has an invalid errorCondition -- errorMessage tag is missing.	As specified in [MS-IPFF] section 2.2.63, <b>errorCondition</b> element.
147	BrowserCompatibility	Controls	Duplicate data adapter name encountered.	As specified in [MS-IPFF] section 2.2.36, <b>name</b> attribute.
148	BrowserCompatibility	Controls	The specified onAfterSubmit action is not supported.	As specified in [MS-IPFF] section 2.2.72, <b>onAfterSubmit</b> attribute.
149	BrowserCompatibility	Controls	Invalid query or submit specification for data adapter.	As specified in [MS-IPFF] section 2.2.37.
150	BrowserCompatibility	Controls	Unsupported Data Adapter.	As specified in [MS-IPFF] section 2.2.59.
151	BrowserCompatibility	Controls	A partFragment tag is missing a match attribute.	As specified in [MS-IPFF] section 2.2.44, <b>match</b> attribute.
152	BrowserCompatibility	Controls	A partFragment tag is missing a replaceWith attribute.	As specified in [MS-IPFF] section 2.2.44, <b>replaceWith</b> attribute
155	BrowserCompatibility	Controls	The operation failed. The data contained multiple DataSets.	The protocol server returns this message when the data source returns more than one dataset. This could happen when querying data from a [Iseminger] database that supports multiple datasets.
158	BrowserCompatibility	Controls	One or more data connection library attributes is empty.	As specified in [MS-IPFF] section 2.2.147.30, <b>connectionLinkType</b> attribute.
160	BrowserCompatibility	Controls	Filters on Repeating Sections are not supported.	As specified in [MS-IPFF] section 2.4.1.15.
161	BrowserCompatibility	Controls	Filters on Repeating Tables are not supported.	As specified in [MS-IPFF] section 2.4.1.16.
162	BrowserCompatibility	Controls	The following HTML tag is not supported: 'Text Box'.	As specified in [MS-IPFF] section 2.4.2.11.
171	BrowserCompatibility	Controls	The XSL for the Date Picker is not in the expected form.	As specified in [MS-IPFF] section 2.4.1.8.
172	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view [view name].	The server returns this message when the <b>body</b> element in a form view is not valid HTML or if an attribute on that element contains a quote (") character.

ID	Category	Feature	Message	Description
173	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view name]</i> .	The protocol server returns this error message when a form view contains invalid or unsafe HTML elements or attributes, and the only <b>SourceLocation</b> information the protocol server is returning is the source file in which the issue occurs. Determining what HTML to consider unsafe is implementation-specific.
174	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when the server cannot determine whether or not a form view contains invalid or unsafe HTML elements or attributes. Determining what HTML to consider unsafe is implementation-specific.
175	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when a form view contains invalid or unsafe HTML elements or attributes, the <b>SourceLocation</b> information the protocol server is returning contains both the source file and line number in which the issue occurs, and the <b>MessageType</b> value for the corresponding Message is "Error". Determining what HTML to consider unsafe is implementation-specific.
176	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when the server cannot determine whether or not a form view contains invalid or unsafe HTML elements or attributes. Determining what HTML to consider unsafe is implementation-specific.
177	BrowserCompatibility	TemplateXml	The form template cannot be browser-enabled because the template data is not valid according to its schema. <i>[Error details]</i>	As specified in [MS-IPFF] section 2.7.
178	BrowserCompatibility	Controls	A required parameter is missing for the data adapter <i>[adapter name]: [XPath expression for the missing parameter]</i>	As specified in [MS-IPFF] sections 2.2.39 and 2.2.41.
179	BrowserCompatibility	Controls	A required parameter is missing for the data adapter <i>[adapter name]: [XPath expression for the missing parameter]</i>	As specified in [MS-IPFF] sections 2.2.39 and 2.2.41.
180	BrowserCompatibility	Controls	Relative links to Data Connection Libraries	As specified in [MS-IPFF] section 2.2.147.30, <b>siteCollection</b>

ID	Category	Feature	Message	Description
	bility		located on different SharePoint site collection are not supported.	attribute.
183	BrowserCompatibility	Controls	Could not execute the following relative query <i>[data adapter name]</i> . Relative queries are not allowed for connections linked to the Data Connection Library.	As specified in [MS-IPFF] section 2.2.147.33.
184	BrowserCompatibility	Controls	Cannot run the relative query <i>[query]</i> . Relative queries are not allowed for connections linked to the Data Connection Library.	As specified in [MS-IPFF] section 2.2.147.34.
185	BrowserCompatibility	Controls	relativeQuery/@replace cannot be a relative, local, or UNC path.	As specified in [MS-IPFF] section 2.2.147.34.
186	BrowserCompatibility	Controls	Unsupported HTML constructs were found associated with this Repeating Table.	As specified in [MS-IPFF] section 2.4.1.16.
191	BrowserCompatibility	Controls	A text box is bound to an inappropriate datatype.	As specified in [MS-IPFF] section 2.4.1.20.
192	BrowserCompatibility	Controls	Rule was referenced but not defined: <i>[ruleName]</i> .	As specified in [MS-IPFF] section 2.2.132, <b>ruleSet</b> attribute.
193	BrowserCompatibility	Controls	There has been a critical error while processing the form.	The protocol server returns this error message protocol server when an unknown error was encountered and the protocol server does not have a default method for handling this unknown error.
196	BrowserCompatibility	DataAdapters	This database is not supported. The database must be a Microsoft SQL Server.	The protocol server returns this error message when there is a data adapter that attempts to connection to a database that is not supported by the protocol server .
197	BrowserCompatibility	BusinessLogic	Unsupported object model version.	As specified in [MS-IPFF] section 2.2.147.50, <b>version</b> attribute.
200	BrowserCompatibility	GenericXsf	The definition of view <i>[view name]</i> does not exist.	As specified in [MS-IPFF] sections 2.2.68, 2.2.114, and 2.2.129, <b>transform</b> attribute.
203	BrowserCompatibility	GenericXPath	A call to GetDOM failed. The DataObject does not exist.	As specified in [MS-IPFF] section 2.4.3.9.2.
204	BrowserCompatibility	ExpressionXPathAnalysis	Invalid expression encountered: <i>[XPath expression]</i> .	As specified in [XPATH].



ID	Category	Feature	Message	Description
205	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
206	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
207	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.1 or in [MS-IPFF2] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
208	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
209	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.1, production LEAF_XPATH.
210	BrowserCompatibility	GenericXsf	The form template defines multiple schemas for the same namespace: <i>[namespace]</i>	As specified in [MS-IPFF] section 2.2.61, <b>location</b> attribute.
211	BrowserCompatibility	GenericXsf	Form template is not valid. The following schema file: <i>[filename]</i> was not found in the Form Template.	As specified in [MS-IPFF] section 2.2.98.
212	BrowserCompatibility	GenericXsf	The following DataObject either cannot be created or cannot be initialized: <i>[data objectName]</i> . The data adapter cannot be initialized. The form contains XML that cannot be parsed: <i>[Detailed error message the XML Processor]</i> .	As specified in [MS-IPFF] section 2.2.36, <b>schema</b> attribute.
213	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) is not a valid XML document. <i>[Detailed error message the XML Processor]</i> .	As specified in [MS-IPFF] section 2.2.92.
214	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) does not contain required processing	As specified in [MS-IPFF] section 2.2.94.

ID	Category	Feature	Message	Description
			instructions.	
215	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) is not a valid XML document. <i>[Detailed error message the XML Processor]</i>	As specified in [MS-IPFF] section 2.2.94.
216	BrowserCompatibility	GenericXsf	The XML template file (specified in the xsf:initialXmlDocument element of the form template definition file) has a processing instruction with a form template version that does not match the version of the form template.	As specified in [MS-IPFF] section 2.2.20, <b>solutionVersion</b> attribute and [MS-IPFF] section 2.7.
217	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) contains a urn reference that does not match the solutions name.	As specified in [MS-IPFF] section 2.2.20, <b>name</b> attribute and [MS-IPFF] section 2.7.
218	BrowserCompatibility	GenericXsf	No XML template file is present in the form template.	As specified in [MS-IPFF] section 2.2.94, <b>href</b> attribute.
219	BrowserCompatibility	GenericXsf	The following XML template file is missing or is not part of the form template: <i>[file name]</i>	As specified in [MS-IPFF] section 2.2.94, <b>href</b> attribute.
220	BrowserCompatibility	GenericXsf	Duplicate property name ' <i>[property name]</i> ' in file ' <i>[file name]</i> '.	As specified in [MS-IPFF] section 2.2.100, <b>name</b> attribute.
221	BrowserCompatibility	GenericXsf	A button element in the form definition file (manifest.xsf) has invalid attributes.	As specified in [MS-IPFF] section 2.2.106 and 2.2.110.
223	BrowserCompatibility	DigitalSignatures	An error occurred when initializing a set of signable data. A name has not been specified for the set of data.	As specified in [MS-IPFF] section 2.2.126, <b>name</b> attribute.
234	BrowserCompatibility	DigitalSignatures	No group was found at the location specified for storing signatures for the set of signable data: <i>[XPath expression]</i> . Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the storage location for	As specified in [MS-IPFF] section 2.2.126, <b>signatureLocation</b> attribute.

ID	Category	Feature	Message	Description
			signatures.	
235	BrowserCompatibility	DigitalSignatures	An error occurred when initializing the set of signable data: <i>[XPath expression]</i> . No group was found at the specified location.	As specified in [MS-IPFF] section 2.2.126, <b>mode</b> attribute.
236	BrowserCompatibility	DigitalSignatures	An error occurred when initializing the set of signable data: " <i>[XPath expression]</i> ". No group was found at the specified location.	As specified in [MS-IPFF] section 2.2.126, <b>mode</b> attribute.
237	BrowserCompatibility	DigitalSignatures	No fields or groups were found corresponding to the set of signable data: <i>[XPath expression]</i> . Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the data to be signed.	As specified in [MS-IPFF] section 2.2.126, <b>data</b> attribute.
238	BrowserCompatibility	GenericXsl	No group was found at the location specified for storing signatures for the set of signable data: " <i>[signed data block name]</i> ". Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the storage location for signatures.	As specified in [MS-IPFF] section 2.2.126, <b>signatureLocation</b> attribute.
239	BrowserCompatibility	GenericXsf	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.
240	BrowserCompatibility	Controls	Numbered List control is not supported	As specified in [MS-IPFF] section 2.4.1.21, <b>xctName</b> attribute.
241	BrowserCompatibility	Controls	Bulleted List control is not supported	As specified in [MS-IPFF] section 2.4.1.21, <b>xctName</b> attribute.
242	BrowserCompatibility	Controls	Plain List control is not supported	As specified in [MS-IPFF] section 2.4.1.21, <b>xctName</b> attribute.
247	BrowserCompatibility	Controls	This control formats the data to show both date and time. Date and time cannot be displayed	As specified in [MS-IPFF] section 2.4.2.11.

ID	Category	Feature	Message	Description
			together in the same control in server forms. Use two controls to display date and time separately and bind them to the same field.	
248	BrowserCompatibility	Controls	This control formats the data using an invalid or unsupported time format <i>[user format string]</i> . Pick a different format.	As specified in [MS-IPFF] section 2.4.2.11.
249	BrowserCompatibility	Controls	This control formats the data using an invalid or unsupported date format <i>[user format string]</i> . Pick a different format.	As specified in [MS-IPFF] section 2.4.2.11.
250	BrowserCompatibility	GenericXsf	The restricted trust level is not supported.	As specified in [MS-IPFF] section 2.2.20, <b>trustLevel</b> attribute.
252	BrowserCompatibility	GenericXsf	This form template has not been correctly published to be browser-enabled. Open the form template in InfoPath Design mode, and click Publish Form Template in the Design Tasks task pane. Follow the steps in the Publishing Wizard to republish the form template, and then try again.	The protocol server returns this message when it encounters errors while trying to browser-enable a form template.
256	BrowserCompatibility	Controls	Selected rich text formatting options are not supported Selected rich text formatting options are not supported.	As specified in [MS-IPFF] section 2.2.147.43.
260	BrowserCompatibility	Controls	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF] section 2.4.1.
261	BrowserCompatibility	Controls	Specifying a restricted set of allowable file types for a File Attachment control is not supported in server forms.	As specified in [MS-IPFF] section 2.2.108, <b>allowedFileTypes</b> attribute.
262	BrowserCompatibility	Controls	Conditionally formatting a File Attachment control is not supported in server forms	As specified in [MS-IPFF] section 2.4.1.11.

ID	Category	Feature	Message	Description
267	BrowserCompatibility	GenericXsf	The form template is not browser-compatible, perhaps as a result of modifications made outside of Microsoft InfoPath. It might be possible to correct the problem by republishing the form template from within Microsoft InfoPath.	The protocol server returns this error message when the form template is not a browser-compatible form template and no more specific error message is applicable.
268	BrowserCompatibility	GenericXsf	Forms enabled for use on a mobile device are supported only for administrator-approved form templates.	As specified in [MS-IPFF] section 2.2.147.9, <b>isMobileEnabled</b> attribute
269	BrowserCompatibility	GenericXsf	Unbound Rich Text Box controls are not supported by InfoPath Forms Services.	As specified in [MS-IPFF] section 2.4.1.17.
270	BrowserCompatibility	GenericXsf	Unbound File Attachment controls are not supported by InfoPath Forms Services.	As specified in [MS-IPFF] section 2.4.1.11.
271	BrowserCompatibility	GenericXsf	Invalid or unsupported locale (LCID [ <i>LCID</i> ]) used in view [ <i>view name</i> ]. Try using different locale.	As specified in [MS-IPFF] section 2.4.1.4.
272	BrowserCompatibility	GenericXsf	The form cannot be converted because it was designed for a later version of InfoPath Forms Services.	As specified in [MS-IPFF] section 2.2.20, <b>solutionFormatVersion</b> attribute.
273	BrowserCompatibility	GenericXsl	The view contains nested formatting that is not supported on InfoPath Forms Services. Examples of such formatting include heavily nested tables and heavily formatted text.	The protocol server returns this error message when an XSL file is not supported because either the depth at which XML elements are nested in the file or the complexity of processing the file exceeds what the server supports. The depth and complexity at which this message is reported is an implementation choice left to the protocol implementer.
274	BrowserCompatibility	GenericXPath	An XPath requires complicated processing that is not supported on InfoPath Forms Services.	The protocol server returns this error message when an XPath expression contains more steps and axis than the server supports. The complexity at which this message is reported is an implementation choice left to the protocol implementer

## 7.1.2 Message Elements of Type "Warning"

ID	Category	Feature	Message	Description
11	BrowserCompatibility	Controls	One or more buttons have the same ID property as this one. The actions associated with the buttons may not execute correctly.	As specified in <a href="#">[MS-IPFF]</a> section 2.4.2.10.
32	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for the class name.	The protocol server returns this message when the syntax of a CSS class name that follows a "." flag is invalid.
33	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for an id.	The protocol server returns this message when the syntax of a CSS identifier preceded by a "#" flag is invalid.
34	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for a pseudo style.	The protocol server returns this message when the syntax of a CSS pseudo-style preceded by a ":" flag is invalid.
35	BrowserCompatibility	Controls	Invalid or malicious CSS styles were found in view <i>[view name]</i> .	The protocol server returns this message when the syntax of a CSS associated with a form view contains invalid elements or XML constructs that could permit script injection.
36	BrowserCompatibility	Controls	Unexpected character encountered. It will be ignored	The protocol server returns this message server when parsing the CSS associated with a form view.
42	BrowserCompatibility	Controls	Potentially unsafe HTML was found in view ' <i>[view name]</i> '. It will be modified or removed when the form is shown to the user.	The protocol server will return this message when a form view contains XML determined to be a potential security issue during run time of the browser-enabled form template.
47	BrowserCompatibility	Controls	Unsupported html attribute <i>[attribute name]</i> encountered.	The protocol server returns this message when the form view contains an unsupported XML attribute to describe its layout.
48	BrowserCompatibility	Controls	Unsupported HTML attribute encountered: <i>[attribute name]</i> .	The protocol server returns this message when the form view contains an unsupported XML attribute to describe its layout.
50	BrowserCompatibility	Controls	The following HTML tag is not supported: <i>[tag name]</i> .	The protocol server returns this message when the form view contains an unsupported XML tag.
51	BrowserCompatibility	Controls	Unsupported value <i>[value]</i> for size attribute on the font element. Defaulting to medium font size (4).	The protocol server returns this message when the form view contains an unsupported value for the <b>font</b> element <b>size</b> attribute.
52	BrowserCompatibility	Controls	The form has a control with border and margin that is too restrictive to properly show error visualization.	The protocol server returns this message when the form view contains a control that cannot properly display the error visualizations UI.
53	BrowserCompatibility	Controls	Unexpected type of list found. Supported values are: '1', 'a', 'A', 'i' and 'I'. Using the default	The protocol server returns this message when it encounters invalid XML list or list item bullet styling, as

ID	Category	Feature	Message	Description
			list type.	specified in <a href="#">[HTML]</a> section 10.2 and <a href="#">[CSS-LEVEL2]</a> section 12.5.1.
54	BrowserCompatibility	Controls	The form sets the <i>[css-style-name]</i> style to a value ( <i>[css-style-value]</i> ) where the unit could not be safely approximated to pixels.	The protocol server returns this message when failing to convert the value of a CSS style value to an appropriate number of pixels.
56	BrowserCompatibility	Controls	Potentially unsafe HTML was found in view <i>[view name]</i> . It will be modified or removed when the form is shown to the user.	The protocol server will return this message when a form view contains CSS determined to be a potential security issue during run time of the browser-enabled form template.
78	BrowserCompatibility	Controls	A default height will be added to a multi-line Text Box control in view <i>[view name]</i> bound to a node <i>[control name]</i> .	The protocol server returns this message when encountering a multiline text box control (see <a href="#">[MS-IPFF]</a> section 2.4.2.11), with a missing <b>height</b> attribute.
84	BrowserCompatibility	Controls	The language pack corresponding to the form locale <i>[locale name]</i> that has not been installed on the server. Text generated by InfoPath Forms Services, such as menus, messages, and dialog boxes, will use the locale and language settings of the site where the form is activated.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.147.9.
85	BrowserCompatibility	Controls	The language pack corresponding to the form locale <i>[LCID]</i> that has not been installed on the server. Text generated by InfoPath Forms Services, such as menus, messages, and dialog boxes, will use the locale and language settings of the site where the form is activated.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.147.9.
109	BrowserCompatibility	Controls	Printing headers and footers is not supported in server forms. The form printed from the browser will not have a header or footer.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.115.
110	BrowserCompatibility	Controls	Printing headers and footers is not supported	As specified in <a href="#">[MS-IPFF]</a> section 2.2.115.
153	BrowserCompatibility	Controls	The useDataSet option is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.39.
187	BrowserCompatibility	Controls	Unsupported border styles were found associated with this Repeating Table. They have been converted to solid border. The conversion to solid border is for Internet Explorer® only.	The protocol server returns this error message when a Repeating Table Control uses the <b>border-style</b> attribute and is setting its value to a string different from "solid", "none", or "hidden".
199	BrowserCompatibility	Views	The view attribute xsf:toolbar is not supported.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.118.

ID	Category	Feature	Message	Description
222	BrowserCompatibility	GenericXsf	A toolbar button element in the form definition file (manifest.xsf) has the following error: <i>[XML of the xsf2:command element]</i>	As specified in [MS-IPFF] section 2.2.147.12.
243	BrowserOptimization	Controls	By default this control will send data to the server whenever its value changes. Reason: <i>[details]</i> . This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related message]</i> To override this behavior, modify Postback Settings on the Browser Forms tab of the Control Properties dialog box.	The protocol server returns this message when a leaf control has a browser-optimization issue. The detailed message can describe how many preceding related messages are also caused by this browser-optimization issue.
244	BrowserOptimization	Controls	By default this control will send data to the server on insert or delete. Reason: <i>[details]</i> . This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related messages]</i> To override this behavior, modify Postback Settings on the Browser Forms tab of the Control Properties dialog box.	The protocol server returns this message when a form section has a browser-optimization issue. The detailed message can describe how many preceding related messages are also caused by this browser-optimization issue
245	BrowserOptimization	Controls	By default this control will send data to the server on insert or delete. Reason: Other related controls require evaluation on the server. For more information, see the following 'primary cause' message in the Design Checker. To override this behavior, modify Postback Settings on the Browser Forms tab of the Control Properties dialog box.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. The server sends this message when a form control has a browser-optimization issue that is caused by another control in the same form view. A related message will appear later in the message list that identifies the other control that causes the browser-optimization issue with this control.
257	BrowserOptimization	Controls	Other controls are bound to the same field or group ( <i>[XPath expression]</i> ). This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related message]</i>	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This message is returned when the optimization issue is because multiple controls have the same binding.
258	BrowserOptimization	Controls	This section contains a control bound to field or group ( <i>[XPath expression]</i> ) to which other controls are also bound. This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related messages]</i>	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This message is returned when a form section has an optimization issue because the binding of a control is inside the form section.



ID	Category	Feature	Message	Description
259	BrowserOptimization	Controls	The section is bound to the root node ( <i>[XPath expression]</i> ) of the data source. This can lead to effects that can only be evaluated on the server. <i>[Optional description and count of any related message]</i>	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. The server returns this message when a form section is binding to the root element.
262	BrowserCompatibility	Controls	Conditionally formatting a File Attachment control is not supported in server forms	As specified in [MS-IPFF] section 2.4.1.11.
263	BrowserOptimization	Controls	The binding of this section ( <i>[binding]</i> ) can lead to effects that can be evaluated only on the server. Reason: <i>[postback reason]</i> .As a result, other section or table controls must also send data to the server on insert or delete. For more information, see the preceding <i>[count]</i> message or messages in the Design Checker.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This particular message is returned when a Section Control is determined to be a likely cause of the issue.
264	BrowserOptimization	Controls	By default this button will send data to the server whenever it is clicked. Reason: It is associated with a rule that uses the following expression that can be evaluated only on the server: <i>[postback reason]</i> .To override this behavior, modify Postback Settings on the Browser Forms table of the Button Properties dialog box.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This particular message is returned when a XPath expression used by a Button Control is a likely cause of the issue.
275	BrowserCompatibility	Controls	Merged print views are not supported in browser-enabled forms. Instead a read-only view of the current view will be displayed as the print view.	The protocol server returns this message when the <b>form definition (.xsf) file</b> contains an <b>mergedPrintView</b> element as specified in [MS-IPFF] section 2.2.147.21.
276	BrowserCompatibility	Controls	Digital signatures are not supported by InfoPath Forms Services for list forms. All digital signatures must be removed before the form can be published.	The protocol server returns this message when the form definition (.xsf) file contains an <b>signedDataBlock</b> element as specified in [MS-IPFF] section 2.2.125.

### 7.1.3 Message Elements of Type "Information"

ID	Category	Feature	Message	Description
37	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects a "!" character in a comment tag.

ID	Category	Feature	Message	Description
38	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects the first "-" character in a comment tag.
39	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects the second "-" character in a comment tag.
41	BrowserCompatibility	Controls	Unexpected character encountered. Expected the end of the stylesheet declaration.	The protocol server returns this message when parsing the CSS associated with a form view. The parser could not find the end of the style sheet declaration.
43	BrowserCompatibility	Controls	Unterminated string encountered. This string will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view that contains a string where quotes or double quotes are not properly closed.
96	BrowserCompatibility	Controls	Error in <i>[manifest file name]</i> . Invalid or unsupported value <i>[LCID value]</i> for the lang property of the <i>[xsl file name]</i> file. Ignoring the language attribute for this view.	As specified in <a href="#">[MS-IPFF]</a> section 2.2.100.

## 7.2 Messages for InfoPath 2010 Forms

Messages described in this section are generated by Microsoft SharePoint Server 2010 and Microsoft SharePoint Server 2013 when **design checking** a **form template (.xsn) file** as specified in [\[MS-IPFF2\]](#).

### 7.2.1 Message Elements of Type "Error"

ID	Category	Feature	Message	Description
1	BrowserCompatibility	Controls	The form template is not browser-compatible. It might be possible to correct the problem by opening the form template in Microsoft InfoPath, and then republishing it.	The protocol server returns this error message when the form template file cannot be opened. This error will occur when the file is invalid or corrupt.
5	BrowserCompatibility	Controls	Error loading form code assembly: <i>[name of the user code module]</i> .	As specified in <a href="#">[MS-IPFF2]</a> section 2.2.2.2.43.
6	BrowserCompatibility	Controls	A rule references a button that is missing from the view.	The protocol server returns this error message when a rule is associated with a button control that is not part of the form view.

ID	Category	Feature	Message	Description
12	BrowserCompatibility	Controls	Button <i>[button name]</i> has a value of the <code>xd:action</code> attribute that is not supported in browser-enabled form templates.	As specified in [MS-IPFF2] section 2.4.2.1.
13	BrowserCompatibility	Controls	Expected anchor tag is missing.	As specified in [MS-IPFF2] section 2.4.1.12.
14	BrowserCompatibility	Controls	List Box control is not supported.	As specified in [MS-IPFF2] section 2.4.1.13.
16	BrowserCompatibility	Controls	Combo Box control is not supported.	As specified in [MS-IPFF2] section 2.4.1.21.
18	BrowserCompatibility	Controls	<i>[Control Name]</i> control is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.89.
21	BrowserCompatibility	Controls	Picture control is not supported.	As specified in [MS-IPFF2] section 2.4.1.23.
22	BrowserCompatibility	Controls	Ink Picture control is not supported.	As specified in [MS-IPFF2] section 2.4.1.22.
23	BrowserCompatibility	Controls	Horizontal Region control is not supported.	As specified in [MS-IPFF2] section 2.4.1.22.
24	BrowserCompatibility	Controls	Master/detail control is not supported.	As specified in [MS-IPFF2] section 2.4.2.
26	BrowserCompatibility	Controls	Recursive control not supported.	As specified in [MS-IPFF2] section 2.4.1.23.
28	BrowserCompatibility	Controls	Scrolling Region control is not supported.	As specified in [MS-IPFF2] section 2.4.1.22.
30	BrowserCompatibility	Controls	Vertical text is not supported	As specified in [MS-IPFF2] section 2.4.1.22.
31	BrowserCompatibility	Controls	Controls that repeat horizontally are not supported.	As specified in [MS-IPFF2] section 2.4.1.22.
40	BrowserCompatibility	Controls	Encountered an encoded identifier <i>[Identifier name]</i> . Encoded identifiers are not supported.	The protocol server returns this error message when parsing the cascading style sheet (CSS) associated with a form view and the CSS contains an encoded identifier.
43	BrowserCompatibility	Controls	Unterminated string encountered. This string will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view that contains a string where quotes or double quotes are not properly closed.
45	BrowserCompatibility	Controls	The form locale <i>[locale identifier]</i> is not a valid language identifier. Assign a valid locale and try again.	As specified in [MS-IPFF2] section 2.2.2.2.2.

ID	Category	Feature	Message	Description
46	BrowserCompatibility	Controls	An XSL file is missing from the form template.	As specified in [MS-IPFF2] section 2.2.1.2.110.
57	BrowserCompatibility	Controls	Linked images are not supported by InfoPath Forms Services. To fix this problem, make the image a part of the form template. The following image was found in view <i>[view name]</i> : <i>[image name]</i> .	The protocol server returns this error message when a form view contains an <b>img</b> element with a <b>href</b> attribute with a value of an absolute URL.
58	BrowserCompatibility	Controls	Unexpected image tag encountered. It is missing a required href attribute.	The protocol server returns this error message when detecting an <b>img</b> element without a <b>href</b> attribute in a form view.
59	BrowserCompatibility	Controls	Only the .png, .gif, and .jpg graphics file formats are supported.	The protocol server returns this error message when the <b>href</b> attribute of an <b>img</b> element in a form view refers a file with an unsupported extension. The Microsoft InfoPath 2010 supports the file extensions.png, .gif, and .jpg.
60	BrowserCompatibility	Controls	The data source <i>[data source name]</i> referenced in the form template is not valid or cannot be found.	As specified in [MS-IPFF2] section 2.4.3.9.2.
61	BrowserCompatibility	Controls	Invalid format for location attribute <i>[attribute value]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.42.
62	BrowserCompatibility	Controls	An eval expression used in the form has invalid arguments.	As specified in [MS-IPFF2] section 2.4.3.6.2.
63	BrowserCompatibility	Controls	The XPath <i>[xpath expression]</i> is invalid. <i>[error details]</i> .	As specified in <a href="#">[XPATH]</a> .
64	BrowserCompatibility	Controls	The following file is not a valid Xml Schema: <i>[name of the schema file]</i> .	As specified in <a href="#">[XMLSCHEMA1]</a> .
67	BrowserCompatibility	Controls	The following file is either missing or is not part of included in the form template: <i>[filename]</i> . To add a file to the form template in design mode, use the Resource Files dialog box on the Tools menu, and then add the file.	As specified in [MS-IPFF2] section 2.2.1.2.79.
68	BrowserCompatibility	Controls	Multiple xsl:templates found with name corresponding to this xsl:call-template. Using the first xsl:template	The protocol server returns this error message when a form view file contains more than one XSL <b>template</b> element with the same

ID	Category	Feature	Message	Description
			found.	value for the <b>name</b> attribute.
69	BrowserCompatibility	Controls	Did not find an xsl:template with the same name as this xsl:call-template. Ignoring the xsl:call-template.	As specified in <a href="#">[W3C-XSLT]</a> .
71	BrowserCompatibility	Controls	Multiple xsl:templates found with mode corresponding to this xsl:apply-templates. Using the first xsl:template found.	The protocol server returns this error message when a form view file contains an <b>apply-templates</b> element that can find one or more <b>xsl:template</b> element to apply with the same <b>mode</b> attribute.
72	BrowserCompatibility	Controls	The xsl:stylesheet element had multiple xsl:template elements with no mode attribute. This is not supported. Using only the first of these xsl:templates.	As specified in [MS-IPFF2] section 2.4.1.2.
73	BrowserCompatibility	Controls	The mode of this xsl:apply-templates element does not match the mode attribute of any xsl:template element.	As specified in [MS-IPFF2] sections 2.4.1.15 and 2.4.1.18.
74	BrowserCompatibility	Controls	Could not find an xsl:template without a mode inside xsl:stylesheet.	As specified in [MS-IPFF2] section 2.4.1.2.
75	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:apply-imports'.	As specified in [MS-IPFF2] section 2.4.1.
76	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:import'.	As specified in [MS-IPFF2] section 2.4.1.
77	BrowserCompatibility	Controls	The following construct is not supported: 'xsl:include'.	As specified in [MS-IPFF2] section 2.4.1.
79	BrowserCompatibility	Controls	An unexpected error has occurred while verifying the form template.	As specified in [MS-IPFF2] section 2.1.
87	BrowserCompatibility	Calculations	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.127, <b>target</b> and <b>expression</b> attributes.
88	BrowserCompatibility	ConditionalFormatting	Unsupported expression.	As specified in [MS-IPFF2] section 2.4.1.1.

ID	Category	Feature	Message	Description
89	BrowserCompatibility	Controls	Unsupported expression.	As specified in [MS-IPFF2] section 2.4.1.1.
90	BrowserCompatibility	DataAdapters	Unsupported expression.	As specified in [MS-IPFF2] section 2.2.1.2.25.
91	BrowserCompatibility	DigitalSignatures	Unsupported expression.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>data</b> and <b>signatureLocation</b> attributes.
92	BrowserCompatibility	GenericXsl	Unsupported expression.	As specified in [MS-IPFF2] section 2.4.1.
93	BrowserCompatibility	Rules	Unsupported expression.	As specified in [MS-IPFF2] section 2.2.1.2.114.
94	BrowserCompatibility	Controls	Unsupported expression.	As specified in [MS-IPFF2] section 2.2.1.2.54, <b>expression</b> and <b>expressionContext</b> attributes.
95	BrowserCompatibility	Controls	Unsupported expression.	As specified in [MS-IPFF2] sections 2.2.1.2.105 and 2.2.1.2.88.
97	BrowserCompatibility	Controls	Browser-enabled form templates must have at least one browser-compatible view.	As specified in [MS-IPFF2] section 2.2.1.2.103.
98	BrowserCompatibility	Controls	<i>[Detailed error message the XML Processor].</i>	As specified in [MS-IPFF2] section 2.2.
99	BrowserCompatibility	Controls	Unexpected schema validation error: <i>[Schema Error].</i>	As specified in [MS-IPFF2] section 2.2.1.2.41.
100	BrowserCompatibility	Controls	<i>[Detailed error message the XML Processor].</i>	As specified in [MS-IPFF2] section 2.2.
102	BrowserCompatibility	Controls	HWS data connections are not supported.	As specified in [MS-IPFF2] section 2.2.1.2.21.
103	BrowserCompatibility	Controls	HWS task pane is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.68.
111	BrowserCompatibility	Controls	The form template is not browser-compatible, perhaps as a result of modifications made outside of Microsoft InfoPath. It might be possible to correct the problem by republishing the form template from within Microsoft InfoPath.	As specified in [MS-IPFF2] section 2.2.2.2.1, <b>runtimeCompatibility</b> attribute.
112	BrowserCompatibility	Controls	Character expected. Found an empty value.	As specified in [MS-IPFF2] section 2.4.1.
113	BrowserCompatibility	Controls	Character expected. Found a string value.	As specified in [MS-IPFF2] section 2.4.1.1.
114	BrowserCompatibility	Controls	Double value expected. <i>[value]</i> is not a valid	As specified in [MS-IPFF2] section 2.4.1.

ID	Category	Feature	Message	Description
			double.	
115	BrowserCompatibility	Controls	Invalid Uri found as value of href attribute of xsl:import.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>href</b> attribute of an <b>xsl:import</b> element uses an invalid URI value.
116	BrowserCompatibility	Controls	Invalid Uri found as value of href attribute of xsl:include.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>href</b> attribute of an <b>xsl:include</b> element uses an invalid URI value.
117	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for grouping-size attribute of xsl:number. The value must be a positive integer value.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>grouping-size</b> attribute of an <b>xsl:number</b> element has an invalid value.
118	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for letter-value attribute of xsl:number. Valid values are: 'alphabetic' and 'traditional'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>letter-value</b> attribute of an <b>xsl:number</b> element has a value different from "alphabetic" or "traditional".
119	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for level attribute of xsl:number. Valid values are: 'single', 'multiple' and 'any'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>level</b> attribute of an <b>xsl:number</b> element has a value different from "single", "multiple" or "any".
120	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for case-order attribute of xsl:sort. Valid values are: 'upper-first' and 'lower-first'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>case-order</b> attribute of an <b>xsl:sort</b> element has a value different from "upper-first" or "lower-first".
121	BrowserCompatibility	Controls	Invalid value: <i>[value]</i> for order attribute of xsl:sort. Valid values are: 'ascending' and 'descending'.	The protocol server returns this error message when parsing the XSL of a form view file. The <b>order</b> attribute of an <b>xsl:sort</b> element has a value different from "ascending" or "descending".
122	BrowserCompatibility	Controls	xsl:import encountered after other xsl constructs.	The protocol server returns this error message when parsing the XSL of a form view file. The parser found an <b>xsl:import</b> element that is not at the top level of the XSL document.
123	BrowserCompatibility	Controls	Integer value expected. <i>[value]</i> is not a valid integer.	The protocol server returns this error message when parsing the XSL of a form view file. The parser found an invalid value where an integer value was expected.

ID	Category	Feature	Message	Description
124	BrowserCompatibility	Controls	The qualified name <i>[name]</i> is not valid.	As specified in [MS-IPFF2] section 2.4.1.
125	BrowserCompatibility	Controls	The qualified name <i>[original value]</i> is not a valid. Using qualified name <i>[replace value]</i> .	As specified in [MS-IPFF2] section 2.4.1.
126	BrowserCompatibility	Controls	Xsl for view <i>[view name]</i> is not a valid xml file. <i>[Detailed error message the XML Processor]</i> .	As specified in [MS-IPFF2] section 2.4.
127	BrowserCompatibility	Controls	Multiple xsl:otherwise elements in an xsl:when are not supported.	As specified in [W3C-XSLT] section 9.2.
128	BrowserCompatibility	Controls	xsl:template found with no match attribute and no name attribute. At least one must be specified.	As specified in [W3C-XSLT] section 5.3, 6.
129	BrowserCompatibility	Controls	If a xsl:template element does not have a match attribute, it must not have a mode attribute.	As specified in [W3C-XSLT] section 5.7.
130	BrowserCompatibility	Controls	xsl:otherwise element found without a corresponding xsl:when element.	As specified in [W3C-XSLT] section 9.2.
131	BrowserCompatibility	Controls	xsl:param encountered after other xsl constructs.	As specified in [W3C-XSLT] section 15.
132	BrowserCompatibility	Controls	The prefix <i>[namespace prefix]</i> is not declared in the current scope.	As specified in [W3C-XSLT] section 2.1.
133	BrowserCompatibility	Controls	Unexpected attribute <i>{[namespace]}[attribute local-name]</i> encountered.	As specified in [W3C-XSLT] section 2.1.
134	BrowserCompatibility	Controls	Unexpected element <i>{[namespace]}[element local-name]</i> encountered.	As specified in [W3C-XSLT] section 2.1.
135	BrowserCompatibility	Controls	Unexpected node encountered.	As specified in [W3C-XSLT] section 2.1.
136	BrowserCompatibility	Controls	Unexpected type of node <i>[node type]</i> encountered.	As specified in [W3C-XSLT] section 2.1.
137	BrowserCompatibility	Controls	Unexpected child element for xsl:for-each. Only xsl:sort elements are allowed.	As specified in [W3C-XSLT] section 8.
138	BrowserCompatibility	Controls	Unsupported value: <i>[value]</i> found for version attribute of xsl:stylesheet.	As specified in [MS-IPFF2] section 2.4.1.2.
139	BrowserCompati	Controls	Unexpected text	As specified in [MS-IPFF2] section



ID	Category	Feature	Message	Description
	bility		encountered.	2.4.1.23.
140	BrowserCompatibility	Controls	Unexpected value: [value]. Expected "yes" or "no".	As specified in [W3C-XSLT] section B.
141	BrowserCompatibility	Controls	Entity References are not supported.	As specified in [W3C-XSLT] section 2.4.
142	BrowserCompatibility	Controls	This element does not permit content if the select attribute is specified.	As specified in [W3C-XSLT] section 2.4.
143	BrowserCompatibility	Controls	Unexpected xsl:when element found after an xsl:otherwise.	As specified in [W3C-XSLT] section 9.2.
144	BrowserCompatibility	Controls	The form definition (.xsf) file has an invalid errorCondition -- errorMessage tag is missing.	As specified in [MS-IPFF2] section 2.2.1.2.44, <b>errorCondition</b> .
145	BrowserCompatibility	Controls	The form definition (.xsf) file has an invalid errorCondition -- errorMessage tag is missing.	As specified in [MS-IPFF2] section 2.2.1.2.44, <b>errorCondition</b> element.
147	BrowserCompatibility	Controls	Duplicate data adapter name encountered.	As specified in [MS-IPFF2] section 2.2.1.2.17, <b>name</b> attribute.
148	BrowserCompatibility	Controls	The specified onAfterSubmit action is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.53, <b>onAfterSubmit</b> attribute.
149	BrowserCompatibility	Controls	Invalid query or submit specification for data adapter.	As specified in [MS-IPFF2] section 2.2.1.2.18.
150	BrowserCompatibility	Controls	Unsupported Data Adapter.	As specified in [MS-IPFF2] section 2.2.1.2.40.
151	BrowserCompatibility	Controls	A partFragment tag is missing a match attribute.	As specified in [MS-IPFF2] section 2.2.44, <b>match</b> attribute.
152	BrowserCompatibility	Controls	A partFragment tag is missing a replaceWith attribute.	As specified in [MS-IPFF2] section 2.2.1.2.23, <b>replaceWith</b> attribute.
155	BrowserCompatibility	Controls	The operation failed. The data contained multiple DataSets.	The protocol server returns this message when the data source returns more than one dataset. This could happen when querying data from a [Iseminger] database that supports multiple datasets.
158	BrowserCompatibility	Controls	One or more data connection library attributes is empty.	As specified in [MS-IPFF2] section 2.2.1.2.23, <b>connectionLinkType</b> attribute.
162	BrowserCompatibility	Controls	The following HTML tag is not supported: 'Text Box'.	As specified in [MS-IPFF2] section 2.4.2.11.

ID	Category	Feature	Message	Description
171	BrowserCompatibility	Controls	The XSL for the Date Picker is not in the expected form.	As specified in [MS-IPFF2] section 2.4.1.8.
172	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view name]</i> .	The server returns this message when the <b>body</b> element in a form view is not valid HTML or if an attribute on that element contains a quote (") character.
173	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view name]</i> .	The protocol server returns this error message when a form view contains invalid or unsafe HTML elements or attributes, and the only <b>SourceLocation</b> information the protocol server is returning is the source file in which the issue occurs. Determining what HTML to consider unsafe is implementation-specific.
174	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when the server cannot determine whether or not a form view contains invalid or unsafe HTML elements or attributes. Determining what HTML to consider unsafe is implementation-specific.
175	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when a form view contains invalid or unsafe HTML elements or attributes, the <b>SourceLocation</b> information the protocol server is returning contains both the source file and line number in which the issue occurs, and the <b>MessageType</b> value for the corresponding Message is "Error". Determining what HTML to consider unsafe is implementation-specific.
176	BrowserCompatibility	Controls	Invalid or malicious HTML was found in view <i>[view Name]</i> .	The protocol server returns this error message when the server cannot determine whether or not a form view contains invalid or unsafe HTML elements or attributes. Determining what HTML to consider unsafe is implementation-specific.
177	BrowserCompatibility	TemplateXml	The form template cannot be browser-enabled because the template data is not valid according to its schema. <i>[Error details]</i> .	As specified in [MS-IPFF2] section 2.7.
178	BrowserCompatibility	Controls	A required parameter is missing for the data adapter <i>[adapter name]</i> : <i>[XPath expression for the</i>	As specified in [MS-IPFF2] sections 2.2.1.2.20 and 2.2.1.2.22.

ID	Category	Feature	Message	Description
			<i>missing parameter</i> ].	
179	BrowserCompatibility	Controls	A required parameter is missing for the data adapter <i>[adapter name]</i> : <i>[XPath expression for the missing parameter]</i> .	As specified in [MS-IPFF2] sections 2.2.1.2.20 and 2.2.1.2.22.
180	BrowserCompatibility	Controls	Relative links to Data Connection Libraries located on different SharePoint site collection are not supported.	As specified in [MS-IPFF2] section 2.2.2.2.23, <b>siteCollection</b> attribute.
183	BrowserCompatibility	Controls	Could not execute the following relative query <i>[data adapter name]</i> . Relative queries are not allowed for connections linked to the Data Connection Library.	As specified in [MS-IPFF2] section 2.2.2.2.26.
184	BrowserCompatibility	Controls	Cannot run the relative query <i>[query]</i> . Relative queries are not allowed for connections linked to the Data Connection Library.	As specified in [MS-IPFF2] section 2.2.2.2.27.
185	BrowserCompatibility	Controls	<i>relativeQuery/@replace</i> cannot be a relative, local, or UNC path.	As specified in [MS-IPFF2] section 2.2.2.2.27.
186	BrowserCompatibility	Controls	Unsupported HTML constructs were found associated with this Repeating Table.	As specified in [MS-IPFF2] section 2.4.1.16.
191	BrowserCompatibility	Controls	A text box is bound to an inappropriate datatype.	As specified in [MS-IPFF2] section 2.4.1.20.
192	BrowserCompatibility	Controls	Rule was referenced but not defined: <i>[rulenName]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.113, <b>ruleSet</b> attribute.
193	BrowserCompatibility	Controls	There has been a critical error while processing the form.	The protocol server returns this error message protocol server when an unknown error was encountered and the protocol server does not have a default method for handling this unknown error.
196	BrowserCompatibility	DataAdapters	This database is not supported. The database must be a Microsoft SQL Server.	The protocol server returns this error message when there is a data adapter that attempts to connection to a database that is not supported by the protocol server .
197	BrowserCompatibility	BusinessLogic	Unsupported object model version.	As specified in [MS-IPFF2] section 2.2.2.2.43, <b>version</b> attribute.
200	BrowserCompati	GenericXsf	The definition of view	As specified in [MS-IPFF2] sections

ID	Category	Feature	Message	Description
	bility		<i>[view name]</i> does not exist.	2.2.1.2.49, 2.2.1.2.95, and 2.2.1.2.110, <b>transform</b> attribute.
203	BrowserCompatibility	GenericXPath	A call to GetDOM failed. The DataObject does not exist.	As specified in [MS-IPFF2] section 2.4.3.9.2.
204	BrowserCompatibility	ExpressionXPathAnalysis	Invalid expression encountered: <i>[XPath expression]</i> .	As specified in [XPATh].
205	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
206	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
207	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
208	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.1, productions LEAF_XPATH, GROUP_XPATH, RELATIVE_REPEATING_GROUP_XPATH and RELATIVE_LEAF_XPATH.
209	BrowserCompatibility	ExpressionXPathAnalysis	Invalid binding XPath <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.1, production LEAF_XPATH.
210	BrowserCompatibility	GenericXsf	The form template defines multiple schemas for the same namespace: <i>[namespace]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.42, <b>location</b> attribute.
211	BrowserCompatibility	GenericXsf	Form template is not valid. The following schema file: <i>[filename]</i> was not found in the Form Template.	As specified in [MS-IPFF2] section 2.2.1.2.79.
212	BrowserCompatibility	GenericXsf	The following DataObject either cannot be created or cannot be initialized: <i>[data objectName]</i> . The data adapter cannot be initialized. The form contains XML that cannot be parsed: <i>[Detailed error message the XML Processor]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.17, <b>schema</b> attribute.
213	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) is not a valid	As specified in [MS-IPFF2] section 2.2.1.2.75.

ID	Category	Feature	Message	Description
			XML document. <i>[Detailed error message the XML Processor]</i> .	
214	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) does not contain required processing instructions.	As specified in [MS-IPFF2] section 2.2.1.2.75.
215	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) is not a valid XML document. <i>[Detailed error message the XML Processor]</i> .	As specified in [MS-IPFF2] section 2.2.1.2.75.
216	BrowserCompatibility	GenericXsf	The XML template file (specified in the xsf:initialXmlDocument element of the form template definition file) has a processing instruction with a form template version that does not match the version of the form template.	As specified in [MS-IPFF2] section 2.2.1.2.1, <b>solutionVersion</b> attribute and [MS-IPFF2] section 2.7.
217	BrowserCompatibility	GenericXsf	The specified XML template file (xsf:initialXmlDocument element) contains a urn reference that does not match the solutions name.	As specified in [MS-IPFF2] section 2.2.1.2.1, <b>name</b> attribute and [MS-IPFF2] section 2.7.
218	BrowserCompatibility	GenericXsf	No XML template file is present in the form template.	As specified in [MS-IPFF2] section 2.2.1.2.75, <b>href</b> attribute.
219	BrowserCompatibility	GenericXsf	The following XML template file is missing or is not part of the form template: <i>[file name]</i> .	As specified in [MS-IPFF] section 2.2.94 or in [MS-IPFF2] section 2.2.1.2.75, <b>href</b> attribute.
220	BrowserCompatibility	GenericXsf	Duplicate property name ' <i>[property name]</i> ' in file ' <i>[file name]</i> '.	As specified in [MS-IPFF] section 2.2.100, <b>name</b> attribute.
221	BrowserCompatibility	GenericXsf	A button element in the form definition file (manifest.xsf) has invalid attributes.	As specified in [MS-IPFF2] section 2.2.1.2.87 and 2.2.1.2.91.
223	BrowserCompatibility	DigitalSignatures	An error occurred when initializing a set of signable data. A name has not been specified for the set of data.	As specified in n [MS-IPFF2] section 2.2.1.2.107, <b>name</b> attribute.

ID	Category	Feature	Message	Description
234	BrowserCompatibility	DigitalSignatures	No group was found at the location specified for storing signatures for the set of signable data: <i>[XPath expression]</i> . Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the storage location for signatures.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>signatureLocation</b> attribute.
235	BrowserCompatibility	DigitalSignatures	An error occurred when initializing the set of signable data: <i>[XPath expression]</i> . No group was found at the specified location.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>mode</b> attribute.
236	BrowserCompatibility	DigitalSignatures	An error occurred when initializing the set of signable data: " <i>[XPath expression]</i> ". No group was found at the specified location.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>mode</b> attribute.
237	BrowserCompatibility	DigitalSignatures	No fields or groups were found corresponding to the set of signable data: <i>[XPath expression]</i> . Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the data to be signed.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>data</b> attribute.
238	BrowserCompatibility	GenericXsl	No group was found at the location specified for storing signatures for the set of signable data: " <i>[signed data block name]</i> ". Use the Digital Signatures category of the Form Options dialog box to edit the expression specifying the storage location for signatures.	As specified in [MS-IPFF2] section 2.2.1.2.107, <b>signatureLocation</b> attribute.
239	BrowserCompatibility	GenericXsf	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.
240	BrowserCompatibility	Controls	Numbered List control is not supported.	As specified in [MS-IPFF2] section 2.4.1.21, <b>xctName</b> attribute.
241	BrowserCompatibility	Controls	Bulleted List control is not supported.	As specified in [MS-IPFF2] section 2.4.1.21, <b>xctName</b> attribute.

ID	Category	Feature	Message	Description
242	BrowserCompatibility	Controls	Plain List control is not supported.	As specified in [MS-IPFF2] section 2.4.1.21, <b>xctName</b> attribute.
247	BrowserCompatibility	Controls	This control formats the data to show both date and time. Date and time cannot be displayed together in the same control in server forms. Use two controls to display date and time separately and bind them to the same field.	As specified in [MS-IPFF2] section 2.4.2.11.
248	BrowserCompatibility	Controls	This control formats the data using an invalid or unsupported time format <i>[user format string]</i> . Pick a different format.	As specified in [MS-IPFF2] section 2.4.2.11.
249	BrowserCompatibility	Controls	This control formats the data using an invalid or unsupported date format <i>[user format string]</i> . Pick a different format.	As specified in [MS-IPFF2] section 2.4.2.11.
250	BrowserCompatibility	GenericXsf	The restricted trust level is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.1, <b>trustLevel</b> attribute.
252	BrowserCompatibility	GenericXsf	This form template has not been published. Open the form in the InfoPath Designer and publish the form to SharePoint using the Administrator-approved form template method in the Publishing Wizard.	The protocol server returns this message when it encounters errors while trying to browser-enable a form template.
256	BrowserCompatibility	Controls	Selected rich text formatting options are not supported Selected rich text formatting options are not supported.	As specified in [MS-IPFF2] section 2.2.2.2.36.
260	BrowserCompatibility	Controls	The following expression could not be parsed because of a syntax error or because it uses an undefined namespace prefix or unsupported function: <i>[XPath expression]</i> .	As specified in [MS-IPFF2] section 2.4.1.
261	BrowserCompatibility	Controls	Specifying a restricted set of allowable file types for a File Attachment control is not supported in server forms.	As specified in [MS-IPFF2] section 2.2.1.2.89, <b>allowedFileTypes</b> attribute.
262	BrowserCompatibility	Controls	Conditionally formatting a File Attachment control is not supported in server	As specified in [MS-IPFF2] section 2.4.1.11.

ID	Category	Feature	Message	Description
			forms.	
267	BrowserCompatibility	GenericXsf	The form template is not browser-compatible, perhaps as a result of modifications made outside of Microsoft InfoPath. It might be possible to correct the problem by republishing the form template from within Microsoft InfoPath.	The protocol server returns this error message when the form template is not a browser-compatible form template and no more specific error message is applicable.
268	BrowserCompatibility	GenericXsf	Forms enabled for use on a mobile device are supported only for administrator-approved form templates.	As specified in [MS-IPFF2] section 2.2.2.2.2, <b>isMobileEnabled</b> attribute.
269	BrowserCompatibility	GenericXsf	Unbound Rich Text Box controls are not supported by InfoPath Forms Services.	As specified in [MS-IPFF2] section 2.4.1.17.
270	BrowserCompatibility	GenericXsf	Unbound File Attachment controls are not supported by InfoPath Forms Services.	As specified in [MS-IPFF2] section 2.4.1.11.
271	BrowserCompatibility	GenericXsf	Invalid or unsupported locale (LCID [ <i>LCID</i> ]) used in view [ <i>view name</i> ]. Try using different locale.	As specified in [MS-IPFF2] section 2.4.1.4.
272	BrowserCompatibility	GenericXsf	The form cannot be converted because it was designed for a later version of InfoPath Forms Services.	As specified in [MS-IPFF2] section 2.2.1.2.1, <b>solutionFormatVersion</b> attribute.
273	BrowserCompatibility	GenericXsl	The view contains nested formatting that is not supported on InfoPath Forms Services. Examples of such formatting include heavily nested tables and heavily formatted text.	The protocol server returns this error message when an XSL file is not supported because either the depth at which XML elements are nested in the file or the complexity of processing the file exceeds what the server supports. The depth and complexity at which this message is reported is an implementation choice left to the protocol implementer.
274	BrowserCompatibility	GenericXPath	An XPath requires complicated processing that is not supported on InfoPath Forms Services.	The protocol server returns this error message when an XPath expression contains more steps and axis than the server supports. The complexity at which this message is reported is an implementation choice left to the protocol implementer.



ID	Category	Feature	Message	Description
278	BrowserCompatibility	Controls	Invalid location for the xsn being published.	The protocol server returns this message when the form definition (.xsf) file is being published to a location that does not support form publishing.
279	BrowserCompatibility	Controls	Repeating Choice Group control is not supported.	The protocol server returns this message when parsing the XSL associated with a form view that contains a Repeating Choice Group Control as specified in [MS-IPFF2] section 2.3.2.1.
280	BrowserCompatibility	Controls	Repeating Choice Section control is not supported.	The protocol server returns this message when parsing the XSL associated with a form view that contains a Repeating Choice Section control as specified in [MS-IPFF2] section 2.3.2.1.
281	BrowserCompatibility	Controls	Choice Section controls must be inside a Choice Group control.	The protocol server returns this message when the view definition (.xsl) file contains a Choice section as specified in [MS-IPFF2] section 2.3.2.1 that is not defined in a Choice Group control as specified in [MS-IPFF2] section 2.3.2.1.
287	BrowserCompatibility	BusinessLogic	The filter expression is not supported in Web browser forms.	The protocol server returns this message when the view definition (.xsl) file contains a predicate expression as specified in [MS-IPFF2] section 2.4.1 that cannot be evaluated on the protocol server.
288	BrowserCompatibility	BusinessLogic	The filter expression is on external data and could not be validated. It may not be supported in Web browser forms.	The protocol server returns this message when the view definition (.xsl) file contains a predicate expression as specified in [MS-IPFF2] section 2.4.1 on an external data source as specified in [MS-IPFF2].
289	BrowserCompatibility	BusinessLogic	Unsupported binding expression used.	The protocol sever returns this message when a control as specified in [MS-IPFF2] section 2.4 contains a binding expression that is not supported.
290	BrowserCompatibility	BusinessLogic	Unsupported HTML constructs were found associated with this control.	The protocol server returns this message when the view definition (.xsl) file as specified in [MS-IPFF2] contains HTML that does not match required HTML as specified in [MS-IPFF2].
291	BrowserCompatibility	Controls	An invalid XSL was encountered.	The protocol server returns this message when no specific other specific error is available and parsing the XSL associated with a form definition (.xsf) file contains invalid XSL as specified in [MS-IPFF2] section 1.3.3.
295	BrowserCompatibility	DataAdapters	Submitting through e-mail is not supported in sandboxed solutions. To	The protocol server returns this message when the form template is activated as a sandboxed

ID	Category	Feature	Message	Description
			publish this form to SharePoint, use the administrator-approved form template option in the Publishing Wizard or remove the e-mail connection [ <i>E-mail adapter name</i> ].	solution and contains an e-mail adapter as specified in [MS-IPFF2] section 2.2.1.2.32.
296	BrowserCompatibility	GenericXsf	Web Part connection input parameters are not supported in sandboxed solutions. To publish this form to SharePoint, change the parameter to an output parameter or use the administrator-approved form template option in the Publishing Wizard.	The protocol server returns this message when a Web Part connection has input parameters and user code is present in the form template.
297	BrowserCompatibility	Controls	The External Item Picker is not supported in user code solutions.	The protocol server returns this message when the form template is activated as a sandboxed solution and contains an Entity Picker control as specified in [MS-IPFF2] section 2.3.2.4.
299	BrowserCompatibility	Controls	The user solution with code could not be activated.	The protocol server returns this message when a form template that has a <b>managedCode</b> element as specified in [MS-IPFF2] section 2.2.2.2.50 cannot be activated as a sandboxed solution.
300	BrowserCompatibility	Controls	An unexpected error has occurred while activating the user solution with code.	The protocol server returns this message when an unknown error condition occurs during the process of activating a form template as a sandboxed solution.
305	BrowserCompatibility	GenericXsf	Unbound control not supported.	The protocol server returns this message when the view definition (.xsl) file as specified in [MS-IPFF2] contains an unsupported unbound control.

## 7.2.2 Message Elements of Type "Warning"

ID	Category	Feature	Message	Description
11	BrowserCompatibility	Controls	One or more buttons have the same ID property as this one. The actions associated with the buttons might not execute correctly.	As specified in <a href="#">[MS-IPFF2]</a> section 2.4.2.10.
32	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for the class name.	The protocol server returns this message when the syntax of a CSS class name that follows a "." flag is invalid.

ID	Category	Feature	Message	Description
33	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for an id.	The protocol server returns this message when the syntax of a CSS identifier preceded by a "#" flag is invalid.
34	BrowserCompatibility	Controls	Unexpected token encountered. Expected an identifier for a pseudo style.	The protocol server returns this message when the syntax of a CSS pseudo-style preceded by a ":" flag is invalid.
35	BrowserCompatibility	Controls	Invalid or malicious CSS styles were found in view <i>[view name]</i> .	The protocol server returns this message when the syntax of a CSS associated with a form view contains invalid elements or XML constructs that could permit script injection.
36	BrowserCompatibility	Controls	Unexpected character encountered. It will be ignored.	The protocol server returns this message server when parsing the CSS associated with a form view.
42	BrowserCompatibility	Controls	Potentially unsafe HTML was found in view ' <i>[view name]</i> '. It will be modified or removed when the form is shown to the user.	The protocol server will return this message when a form view contains XML determined to be a potential security issue during run time of the browser-enabled form template.
47	BrowserCompatibility	Controls	Unsupported html attribute <i>[attribute name]</i> encountered.	The protocol server returns this message when the form view contains an unsupported XML attribute to describe its layout.
48	BrowserCompatibility	Controls	Unsupported HTML attribute encountered: <i>[attribute name]</i> .	The protocol server returns this message when the form view contains an unsupported XML attribute to describe its layout.
50	BrowserCompatibility	Controls	The following HTML tag is not supported: <i>[tag name]</i> .	The protocol server returns this message when the form view contains an unsupported XML tag.
51	BrowserCompatibility	Controls	Unsupported value <i>[value]</i> for size attribute on the font element. Defaulting to medium font size (4).	The protocol server returns this message when the form view contains an unsupported value for the <b>font</b> element <b>size</b> attribute.
52	BrowserCompatibility	Controls	The form has a control with border and margin that is too restrictive to properly show error visualization.	The protocol server returns this message when the form view contains a control that cannot properly display the error visualizations UI.
53	BrowserCompatibility	Controls	Unexpected type of list found. Supported values are: '1', 'a', 'A', 'i' and 'I'. Using the default list type.	The protocol server returns this message when it encounters invalid XML list or list item bullet styling, as specified in <a href="#">[HTML]</a> section 10.2 and <a href="#">[CSS-LEVEL2]</a> section 12.5.1.
54	BrowserCompatibility	Controls	The form sets the <i>[css-style-name]</i> style to a value ( <i>[css-style-value]</i> ) where the unit could not be safely approximated to pixels.	The protocol server returns this message when failing to convert the value of a CSS style value to an appropriate number of pixels.
56	BrowserCompatibility	Controls	Potentially unsafe HTML was found in view <i>[view name]</i> . It will be modified or removed when the form is shown to the user.	The protocol server will return this message when a form view contains CSS determined to be a potential security issue during run time of the browser-enabled form template.

ID	Category	Feature	Message	Description
78	BrowserCompatibility	Controls	A default height will be added to a multi-line Text Box control in view <i>[view name]</i> bound to a node <i>[control name]</i> .	The protocol server returns this message when encountering a multiline text box control (see [MS-IPFF2] section 2.4.2.11), with a missing <b>height</b> attribute.
84	BrowserCompatibility	Controls	The language pack corresponding to the form locale <i>[locale name]</i> that has not been installed on the server. Text generated by InfoPath Forms Services, such as menus, messages, and dialog boxes, will use the locale and language settings of the site where the form is activated.	As specified in [MS-IPFF2] section 2.2.2.2.2.
85	BrowserCompatibility	Controls	The language pack corresponding to the form locale <i>[LCID]</i> that has not been installed on the server. Text generated by InfoPath Forms Services, such as menus, messages, and dialog boxes, will use the locale and language settings of the site where the form is activated.	As specified in [MS-IPFF2] section 2.2.2.2.2.
109	BrowserCompatibility	Controls	Printing headers and footers is not supported in server forms. The form printed from the browser will not have a header or footer.	As specified in [MS-IPFF2] section 2.2.1.2.96.
110	BrowserCompatibility	Controls	Printing headers and footers is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.96.
153	BrowserCompatibility	Controls	The useDataSet option is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.20.
187	BrowserCompatibility	Controls	Unsupported border styles were found associated with this Repeating Table. They have been converted to solid border. The conversion to solid border is for Internet Explorer® only.	The protocol server returns this error message when a Repeating Table Control uses the <b>border-style</b> attribute and is setting its value to a string different from "solid", "none", or "hidden".
199	BrowserCompatibility	Views	The view attribute xsf:toolbar is not supported.	As specified in [MS-IPFF2] section 2.2.1.2.99.
222	BrowserCompatibility	GenericXsf	A toolbar button element in the form definition file (manifest.xsf) has the following error: <i>[XML of the xsf2:command element]</i> .	As specified in [MS-IPFF2] section 2.2.2.2.5.
243	BrowserOptimization	Controls	By default this control will send data to the server whenever its value changes. Reason: <i>[details]</i> . This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related message]</i> To override this behavior, modify Postback Settings on the Browser Forms tab of the	The protocol server returns this message when a leaf control has a browser-optimization issue. The detailed message can describe how many preceding related messages are also caused by this browser-optimization issue.

ID	Category	Feature	Message	Description
			Control Properties dialog box.	
244	BrowserOptimization	Controls	By default this control will send data to the server on insert or delete. Reason: [details]. This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related messages]</i> To override this behavior, modify Postback Settings on the Browser Forms tab of the Control Properties dialog box.	The protocol server returns this message when a form section has a browser-optimization issue. The detailed message can describe how many preceding related messages are also caused by this browser-optimization issue.
245	BrowserOptimization	Controls	By default this control will send data to the server on insert or delete. Reason: Other related controls require evaluation on the server. For more information, see the following 'primary cause' message in the Design Checker. To override this behavior, modify Postback Settings on the Browser Forms tab of the Control Properties dialog box.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. The server sends this message when a form control has a browser-optimization issue that is caused by another control in the same form view. A related message will appear later in the message list that identifies the other control that causes the browser-optimization issue with this control.
257	BrowserOptimization	Controls	Other controls are bound to the same field or group ( <i>[XPath expression]</i> ). This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related message]</i>	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This message is returned when the optimization issue is because multiple controls have the same binding.
258	BrowserOptimization	Controls	This section contains a control bound to field or group ( <i>[XPath expression]</i> ) to which other controls are also bound. This can lead to effects that can be evaluated only on the server. <i>[Optional description and count of any related messages]</i> .	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This message is returned when a form section has an optimization issue because the binding of a control is inside the form section.
259	BrowserOptimization	Controls	The section is bound to the root node ( <i>[XPath expression]</i> ) of the data source. This can lead to effects that can only be evaluated on the server. <i>[Optional description and count of any related message]</i> .	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. The server returns this message when a form section is binding to the root element.
262	BrowserCompatibility	Controls	Conditionally formatting a File Attachment control is not supported in server forms.	As specified in [MS-IPFF2] section 2.4.1.11.

ID	Category	Feature	Message	Description
263	BrowserOptimization	Controls	The binding of this section ( <i>[binding]</i> ) can lead to effects that can be evaluated only on the server. Reason: <i>[postback reason]</i> .As a result, other section or table controls must also send data to the server on insert or delete. For more information, see the preceding <i>[count]</i> message or messages in the Design Checker.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This particular message is returned when a Section Control is determined to be a likely cause of the issue.
264	BrowserOptimization	Controls	By default this button will send data to the server whenever it is clicked. Reason: It is associated with a rule that uses the following expression that can be evaluated only on the server: <i>[postback reason]</i> .To override this behavior, modify Postback Settings on the Browser Forms table of the Button Properties dialog box.	The protocol server returns this message when it detects this form template has a potential browser-optimization issue. This particular message is returned when a XPath expression used by a Button Control is a likely cause of the issue.
275	BrowserCompatibility	Controls	Merged print views are not supported in browser-enabled forms. Instead a read-only view of the current view will be displayed as the print view.	The protocol server returns this message when the <b>form definition (.xsf) file</b> contains an <b>mergedPrintView</b> element as specified in [MS-IPFF2] section 2.2.1.2.14.
276	BrowserCompatibility	Controls	Digital Signatures are not supported by InfoPath Forms Services for list forms. All digital signatures must be removed before the form can be published.	The protocol server returns this message when the form definition (.xsf) file contains an <b>signedDataBlock</b> element as specified in [MS-IPFF2] section 2.2.1.2.106.
285	BrowserCompatibility	Controls	The sign signature line rule action is not supported in Web browser forms. The rule will be ignored when the form is edited in a Web browser.	The protocol server returns this message when the form definition (.xsf) file as specified in [MS-IPFF2] contains a <b>SignatureLine</b> element as specified in [MS-IPFF2] section 2.2.3.2.12.
286	BrowserCompatibility	Controls	The code in this form uses methods or properties that require assembly <i>[Assembly Name]</i> .	The protocol server returns this message when the form definition (.xsf) file as specified in [MS-IPFF2] contains a reference to an <b>assembly</b> as specified by the following element <b>managedCode</b> as specified in [MS-IPFF2] section 2.2.2.2.43 that cannot be found when the form is being published.
298	BrowserCompatibility	Controls	Never postback setting is not supported for the Button control in this version of InfoPath. In the Browser forms tab of the Button control properties dialog box, change the postback setting to the recommended option.	The protocol server returns this message when the form definition (.xsf) file contains a button control, as specified in [MS-IPFF2] section 2.4.1.5, that has the postback setting, as specified in [MS-IPFF2] section 2.4.2.29 set to "Never".

ID	Category	Feature	Message	Description
303	BrowserCompatibility	Controls	Unsupported text indentation formatting (first line or hanging) was found in view <i>[View Name]</i> . Use clear formatting to remove first line or hanging text indentation.	The protocol server returns this message when the view definition (.xsl) file, as specified in [MS-IPFF2], contains a text indentation style markup.
304	BrowserCompatibility	Controls	Code events on Person/Group Picker controls are not supported in sandboxed solutions. To enable code events on Person/Group Picker controls use the administrator-approved form template option in the Publishing Wizard.	The protocol server returns this message when the view definition (.xsl) file, as specified in [MS-IPFF2], contains a Contact Selector as specified in [MS-IPFF2] section 2.3.1.3 that has user code.

### 7.2.3 Message Elements of Type "Information"

ID	Category	Feature	Message	Description
37	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects a "!" character in a comment tag.
38	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects the first "-" character in a comment tag.
39	BrowserCompatibility	Controls	Unexpected character <i>[character]</i> encountered, expected <i>[character]</i> . The unexpected character will be ignored.	The protocol server returns this message when parsing the CSS associated with a form view. The parser expects the second "-" character in a comment tag.
41	BrowserCompatibility	Controls	Unexpected character encountered. Expected the end of the stylesheet declaration.	The protocol server returns this message when parsing the CSS associated with a form view. The parser could not find the end of the style sheet declaration.
96	BrowserCompatibility	Controls	Error in <i>[manifest file name]</i> . Invalid or unsupported value <i>[LCID value]</i> for the lang property of the <i>[xsl file name]</i> file. Ignoring the language attribute for this view.	As specified in [MS-IPFF2] section 2.2.1.2.81.
292	BrowserCompatibility	Controls	The custom control has duplicate attributes or elements. Please check the XSL to ensure there are no duplicate values.	The protocol server returns this message when the view definition (.xsl) file, as specified in [MS-IPFF2] has duplicate attributes for one of the following controls: Entity Picker as specified in [MS-IPFF2] section 2.3.2.4 or Contact Selector as specified in [MS-IPFF2] section 2.3.1.3.

ID	Category	Feature	Message	Description
302	BrowserCompatibility	Controls	Submitting to a hosting environment through code is not supported in sandboxed solutions. If your form submits to a hosting environment through code, use the administrator-approved form template option in the Publishing Wizard.	The protocol server returns this message when a solution can submit data to a hosted environment and has user code present.

### 7.3 Messages for InfoPath 2013 Forms

Messages described in this section are generated by Microsoft SharePoint Server 2013 when design checking a form template (.xsn) file as specified in [\[MS-IPFF2\]](#).

Messages for InfoPath 2013 Forms are the same as the messages for InfoPath 2010 Forms as specified in section [7.2](#).

Preliminary



## 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 updates to those products.

- Microsoft Office Forms Server 2007
- Microsoft Office InfoPath 2007
- Microsoft InfoPath 2010
- Microsoft InfoPath 2013
- Microsoft Office SharePoint Server 2007
- Microsoft SharePoint Server 2010
- Microsoft SharePoint Server 2013
- Microsoft SharePoint Server 2016
- Microsoft SharePoint Server 2019
- Microsoft SharePoint Server Subscription Edition Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

<1> [Section 2.2.4](#): Office InfoPath 2007 and InfoPath 2010 ignore the suggestions contained in the **CategoryType** complex type.

<2> [Section 2.2.4.2](#): Office InfoPath 2007 and InfoPath 2010 ignore the suggestions contained in the **CategoryType** complex type.

<3> [Section 2.2.4.4](#): Office Forms Server 2007, Office SharePoint Server 2007, and SharePoint Server 2010 return strings in the protocol server's designated default language.

<4> [Section 2.2.4.4](#): See section [7](#)

<5> [Section 3.1.4](#): Office Forms Server 2007 and Office SharePoint Server 2007 support **form template (.xsn) files** conformant to [\[MS-IPFF\]](#). SharePoint Server 2010 supports form template (.xsn) files conformant to either [\[MS-IPFF\]](#) or [\[MS-IPFF2\]](#).

<6> [Section 3.1.4](#): Office Forms Server 2007, Office SharePoint Server 2007, and SharePoint Server 2010 return SOAP faults in response to any unsupported **WSDL operation** requests.

<7> [Section 3.1.4.1.2.2](#): Office InfoPath 2007 and InfoPath 2010 use zero messages as a sign of successfully browser-enabling the form template (.xsn) file.

<8> [Section 3.1.4.2.2.1](#): Office Forms Server 2007 and Office SharePoint Server 2007 return a SOAP exception.

<9> [Section 3.1.4.2.2.1](#): Office InfoPath 2007 uses the value "O12 Designer" and InfoPath 2010 uses the value "InfoPath 14". Office Forms Server 2007, Office SharePoint Server 2007, and SharePoint Server 2010 ignore this element.

<10> [Section 3.1.4.2.2.2](#): Office Forms Server 2007, Office SharePoint Server 2007, and SharePoint Server 2010 return strings in the protocol server's designated default language.

<11> [Section 3.1.4.5.2.1](#): Office Forms Server 2007, Office SharePoint Server 2007, and SharePoint Server 2010 return a SOAP exception.

<12> [Section 3.1.4.5.2.1](#): InfoPath 2010 uses the value "InfoPath 14".

<13> [Section 3.1.4.5.2.2](#): Office InfoPath 2007 and InfoPath 2010 use zero messages as a sign of successfully browser-enabling the form template (.xsn) file.

<14> [Section 3.1.4.5.2.2](#): Office InfoPath 2007 and InfoPath 2010 typically call the **DesignCheckFormTemplate** operation after a response from **BrowserEnableUserFormTemplate** with at least one **Message** element of **MessageType** "Error".

<15> [Section 3.1.4.6.2.2](#): SharePoint Server 2010 returns a SOAP exception and does not continue with additional field operations requested. No SOAP exception is returned if a **newFields** operation fails.

Preliminary

## 9 Change Tracking

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

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

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

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

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

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

Section	Description	Revision class
<a href="#">8</a> Appendix C: Product Behavior	Updated list of supported products.	Major

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