**[MS-OXWUMS]:**

**Voice Mail Settings Web Service Protocol**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 4/4/2008 | 0.1 | Major | Initial Availability. |
| 6/27/2008 | 1.0 | Major | Initial Release. |
| 8/6/2008 | 1.0.1 | Editorial | Revised and edited technical content. |
| 9/3/2008 | 1.0.2 | Editorial | Updated references. |
| 12/3/2008 | 1.0.3 | Editorial | Revised and edited technical content. |
| 3/4/2009 | 1.0.4 | Editorial | Revised and edited technical content. |
| 4/10/2009 | 2.0 | Major | Updated technical content and applicable product releases. |
| 7/15/2009 | 3.0 | Major | Revised and edited for technical content. |
| 11/4/2009 | 3.1.0 | Minor | Updated the technical content. |
| 2/10/2010 | 4.0.0 | Major | Updated and revised the technical content. |
| 5/5/2010 | 4.0.1 | Editorial | Revised and edited the technical content. |
| 8/4/2010 | 5.0 | Major | Significantly changed the technical content. |
| 11/3/2010 | 5.1 | Minor | Clarified the meaning of the technical content. |
| 3/18/2011 | 6.0 | Major | Significantly changed the technical content. |
| 8/5/2011 | 6.1 | Minor | Clarified the meaning of the technical content. |
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# Introduction

The Voice Mail Settings Web Service Protocol provides an extensibility point that enables clients to read and change information about Unified Messaging properties, and play voice mails or record greetings over the telephone.

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.

## Glossary

This document uses the following terms:

**endpoint**: A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

**EntryID**: A sequence of bytes that is used to identify and access an object.

**event**: An action or occurrence to which an application might respond. Examples include state changes, data transfers, key presses, and mouse movements.

**handle**: Any token that can be used to identify and access an object such as a device, file, or a window.

**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]](https://go.microsoft.com/fwlink/?LinkId=90534) and [[RFC5246]](https://go.microsoft.com/fwlink/?LinkId=129803).

**mailbox**: A message store that contains email, calendar items, and other Message objects for a single recipient.

**Out of Office (OOF)**: One of the possible values for the free/busy status on an appointment. It indicates that the user will not be in the office during the appointment.

**Session Initiation Protocol (SIP)**: An application-layer control (signaling) protocol for creating, modifying, and terminating sessions with one or more participants. [**SIP**](#gt_586971aa-3b65-4de3-be93-1a9756777d89) is defined in [[RFC3261]](https://go.microsoft.com/fwlink/?LinkId=90410).

**SOAP action**: The HTTP request header field used to indicate the intent of the SOAP request, using a URI value. See [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 6.1.1 for more information.

**SOAP body**: A container for the payload data being delivered by a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59) to its recipient. See [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

**SOAP fault**: A container for error and status information within a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59). See [SOAP1.2-1/2007] section 5.4 for more information.

**SOAP header**: A mechanism for implementing extensions to a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59) in a decentralized manner without prior agreement between the communicating parties. See [SOAP1.2-1/2007] section 5.2 for more information.

**SOAP message**: An [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) document consisting of a mandatory SOAP envelope, an optional [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277), and a mandatory [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04). See [SOAP1.2-1/2007] section 5 for more information.

**Unified Messaging**: A set of components and services that enable voice, fax, and email messages to be stored in a user's [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) and accessed from a variety of devices.

**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]](https://go.microsoft.com/fwlink/?LinkId=90287).

**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]](https://go.microsoft.com/fwlink/?LinkId=90577). Also, an element that describes the data being exchanged between web service providers and clients.

**WSDL port type**: A named set of logically-related, abstract [**Web Services Description Language (WSDL)**](#gt_5a824664-0858-4b09-b852-83baf4584efa) operations and messages.

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

**XML namespace**: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [[RFC3986]](https://go.microsoft.com/fwlink/?LinkId=90453). 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]](https://go.microsoft.com/fwlink/?LinkId=90602).

**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**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

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

[MS-OXDSCLI] Microsoft Corporation, "[Autodiscover Publishing and Lookup Protocol](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19)".

[MS-OXWSCDATA] Microsoft Corporation, "[Common Web Service Data Types](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd)".

[MS-OXWSCORE] Microsoft Corporation, "[Core Items Web Service Protocol](%5BMS-OXWSCORE%5D.pdf#Section_7a113138a0db4168a164bf8b05cc4e6d)".

[MS-OXWSCVTID] Microsoft Corporation, "[Convert Item Identifier Web Service Protocol](%5BMS-OXWSCVTID%5D.pdf#Section_7e7465ed30bd416792c41f1a82d90224)".

[MS-OXWSSRCH] Microsoft Corporation, "[Mailbox Search Web Service Protocol](%5BMS-OXWSSRCH%5D.pdf#Section_35f2a6fd080143ddb3a57a0bf60c0127)".

[RFC2045] Freed, N., and Borenstein, N., "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996, [http://www.rfc-editor.org/rfc/rfc2045.txt](https://go.microsoft.com/fwlink/?LinkId=90307)

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

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, [http://www.rfc-editor.org/rfc/rfc2818.txt](https://go.microsoft.com/fwlink/?LinkId=90383)

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", BCP 47, RFC 3066, January 2001, [http://www.ietf.org/rfc/rfc3066.txt](https://go.microsoft.com/fwlink/?LinkId=90404)

[RFC3261] Rosenberg, J., Schulzrinne, H., Camarillo, G., Johnston, A., Peterson, J., Sparks, R., Handley, M., and Schooler, E., "SIP: Session Initiation Protocol", RFC 3261, June 2002, [http://www.ietf.org/rfc/rfc3261.txt](https://go.microsoft.com/fwlink/?LinkId=90410)

[RFC3966] Schulzrinne, H., "The tel URI for Telephone Numbers", RFC 3966, December 2004, [http://www.rfc-editor.org/rfc/rfc3966.txt](https://go.microsoft.com/fwlink/?LinkId=114246)

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, [http://www.w3.org/TR/2000/NOTE-SOAP-20000508/](https://go.microsoft.com/fwlink/?LinkId=90520)

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, [http://www.w3.org/TR/2001/NOTE-wsdl-20010315](https://go.microsoft.com/fwlink/?LinkId=90577)

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, [http://www.w3.org/TR/2009/REC-xml-names-20091208/](https://go.microsoft.com/fwlink/?LinkId=191840)

[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/](https://go.microsoft.com/fwlink/?LinkId=90608)

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

### Informative References

[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](%5BMS-OXPROTO%5D.pdf#Section_734ab967e43e425babe1974af56c0283)".

[MS-OXWCONFIG] Microsoft Corporation, "[Web Service Configuration Protocol](%5BMS-OXWCONFIG%5D.pdf#Section_dbef7bda576e47ac9cb246bdd59949ca)".

[MS-OXWSADISC] Microsoft Corporation, "[Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol](%5BMS-OXWSADISC%5D.pdf#Section_b239dc06c52c4259bc491ff88d22ae3c)".

## Overview

Servers that implement this protocol initiate telephone calls and interact with other systems that connect the calls to devices. This protocol is also an entry point to voice access subsystems. Clients use this protocol to update [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties and initiate communication between the protocol server system and other devices such as telephone receivers.

The server side of this protocol requires state information to be maintained for call status updates that can be retrieved by the client that initiates a telephone call. The client side of this protocol does not require that state information be maintained.

## Relationship to Other Protocols

This protocol relies on the Mailbox Search Web Service Protocol, as described in [[MS-OXWSSRCH]](%5BMS-OXWSSRCH%5D.pdf#Section_35f2a6fd080143ddb3a57a0bf60c0127), to provide identifiers for items and voice mails to play on a telephone. This protocol also uses the Convert Item Identifier Web Service Protocol, as described in [[MS-OXWSCVTID]](%5BMS-OXWSCVTID%5D.pdf#Section_7e7465ed30bd416792c41f1a82d90224), to convert item and voice mail identifiers in some scenarios, depending on how the item identifiers are retrieved and which operations are targeted.

A client that implements this protocol can use the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [[MS-OXWSADISC]](%5BMS-OXWSADISC%5D.pdf#Section_b239dc06c52c4259bc491ff88d22ae3c), or the Autodiscover Publishing and Lookup Protocol, as described in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19), to identify the target [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) to use for each operation.

The Web Service Configuration Protocol, as described in [[MS-OXWCONFIG]](%5BMS-OXWCONFIG%5D.pdf#Section_dbef7bda576e47ac9cb246bdd59949ca), can provide configuration information for clients that use the endpoint provided by the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol.

This protocol uses the SOAP Protocol, as described in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), to specify the structure of information exchanged between the client and server. This protocol uses the XML Protocol, as described in [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610), to describe the message content sent to and from the server.

The Voice Mail Settings Web Service Protocol uses SOAP over [**HTTPS**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383), as shown in the following figure.



Figure 1: Voice Mail Settings Web Service Protocol HTTPS stack

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [[MS-OXPROTO]](%5BMS-OXPROTO%5D.pdf#Section_734ab967e43e425babe1974af56c0283).

## Prerequisites/Preconditions

The [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) [**URL**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) that is returned by either the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [[MS-OXWSADISC]](%5BMS-OXWSADISC%5D.pdf#Section_b239dc06c52c4259bc491ff88d22ae3c), or the Autodiscover Publishing and Lookup Protocol, as described in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19), is a required to form the [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd) request to the Web server that hosts this protocol. The operations that this protocol uses cannot be accessed unless the correct endpoint that services the target [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) is identified for the HTTP Web requests that target the Voice Mail Settings Web Service Protocol operations.

The [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) service has to be enabled in order for many of the operations that are associated with this protocol to function. Additionally, for operations that initiate playing items on the phone, such as the **PlayOnPhone** and the **PlayOnPhone2** operations, the item identifiers of the items or voice mails have to be obtained before these operations can be used.

## Applicability Statement

This protocol is applicable for systems that initiate playing items and voice mails on devices.

## Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

* **Supported Transports:** This protocol uses SOAP 1.1.
* **Protocol Versions:** This protocol has only one [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) version.
* **Security and Authentication Methods:** This protocol relies on the Web server that hosts the application to perform authentication. The server will not allow unauthenticated clients to access the Voice Mail Settings Web Service Protocol operations.
* **Capability Negotiation:** This protocol does not perform explicit capability negotiation. This protocol relies on the Autodiscover Publishing and Lookup Protocol, as described in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19), to identify protocol versions and service [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) that are applicable to a client.

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) in this specification provides a base description of the protocol. The schema in this specification provides a base description of the message syntax. The text that specifies the WSDL and schema might specify restrictions that reflect actual protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, or **present**.

## Transport

Messages are transported by using SOAP version 1.1. For details, see [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520).

This protocol relies on the Web server that hosts the application to perform authentication. The protocol MUST use secure communication via HTTPS, as defined in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383).

## Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067), as defined in [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610), and [**Web Services Description Language (WSDL)**](#gt_5a824664-0858-4b09-b852-83baf4584efa), as defined in [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) by using the mechanisms specified in [[XMLNS]](https://go.microsoft.com/fwlink/?LinkId=191840). 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 |
| --- | --- | --- |
| **tns** | http://schemas.microsoft.com/exchange/services/2006/messages |  |
| **s** | http://www.w3.org/2001/XMLSchema | [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610)  |
| **soap** | http://schemas.xmlsoap.org/WSDL/soap/ | [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) |
| **WSDL**  | http://schemas.xmlsoap.org/WSDL/ | [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577)  |
| **xs** | http://www.w3.org/2001/XMLSchema | [XMLSCHEMA2]  |
| **t** | http://schemas.microsoft.com/exchange/services/2006/types |  |
| **m** | http://schemas.microsoft.com/exchange/services/2006/messages |  |

### Messages

This specification defines a single common [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) definition.

| Message | Description |
| --- | --- |
| **Malformed XML SOAP Fault** | Specifies the SOAP fault that is returned if the request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed according to the schema specified in section [6](#Section_6e5af333e731447e87f7f19dfbacc199). |

#### Malformed XML SOAP Fault

The **Disconnect**, **DisconnectPhoneCall**, **GetCallInfo**, **GetPhoneCallInformation**, **GetUMProperties**, **IsUMEnabled**, **PlayOnPhone2**, **PlayOnPhone**, **PlayOnPhoneGreeting**, **ResetPIN**, **SetMissedCallNotificationEnabled**, **SetOofStatus**, **SetPlayOnPhoneDialString**, and **SetTelephoneAccessFolderEmail** operations, as specified in section [3.1.4](#Section_effc3439336e4ee0a7fa92bb2bc6bef6), MUST use the SOAP fault specified in this section if the request XML is malformed according the schema specified in section [6](#Section_6e5af333e731447e87f7f19dfbacc199). The following [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) specifies the structure of the SOAP fault that is returned when a request contains malformed XML. This message is not specified in the schema.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/types">a:ErrorInvalidRequest</faultcode>
6. <faultstring xml:lang="en-US">The request is invalid.</faultstring>
7. <detail>
8. <e:ResponseCode xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">ErrorInvalidRequest</e:ResponseCode>
9. <e:Message xmlns:e="http://schemas.microsoft.com/exchange/services/2006/errors">The request is invalid.</e:Message>
10. </detail>
11. </s:Fault>
12. </s:Body>
13. </s:Envelope>

The **faultcode** element MUST contain a text value of "a:ErrorInvalidRequest" if the request is malformed.

The **faultstring** element MUST contain a text value of "The request is invalid" if the request is malformed.

The contents of the SOAP fault **detail** element are specified by the **ResponseCode** element, as specified in section [2.2.3.3](#Section_fbfde788e35b4025a417638988e916e5), and the **Message** element, as specified in section [2.2.3.2](#Section_073db85bf22347cb91493f4e56d996ec). The **Message** element MUST contain a text value of "The request is invalid" if the request contained malformed XML. The **ResponseCode** element MUST have a text value of "ErrorInvalidRequest" if the request contained malformed XML.

If the request contained well-formed XML that is not valid, the **ResponseCode** element MUST have a text value of "ErrorSchemaValidation" and the **Message** element MUST contain a text value of "The request failed schema validation".

The **ResponseCode** and **Message** elements are not described in a schema.

### Elements

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are defined by this specification. XML schema element definitions that are specific to a particular operation are described with the operation.

| Element name | Description |
| --- | --- |
| **ExceptionType**  | Specifies the type of exception that caused a SOAP fault. |
| **Message**  | Specifies an error string that is associated with the **ResponseCode** element. |
| **ResponseCode**  | Specifies a response code that is associated with a SOAP fault. |

#### m:ExceptionType Element

The **ExceptionType** element specifies the type of exception that caused a SOAP fault.

1. <xs:element name="ExceptionType"
2. type="xs:string"
3. />

The **xs:string** type is specified in [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608).

This element MUST be returned when any of the following conditions occur:

* A **Disconnect** operation request contains an invalid telephone phone call identifier. The **ExceptionType** element MUST contain a text value of "a:InvalidCallIdException".
* A **GetCallInfo** operation request contains an invalid telephone phone call identifier. The **ExceptionType** element MUST contain a text value of "a:InvalidCallIdException".
* A **PlayOnPhone** operation request contains an invalid item identifier. The **ExceptionType** element MUST contain a text value of "a:InvalidObjectIdException".
* A **PlayOnPhone** or **PlayOnPhoneGreeting** operation request contains an invalid dial string. The **ExceptionType** element MUST contain a text value of "a:DialingRulesException".

The **ExceptionType** element is not described in a schema. It is an extension of the SOAP fault structure, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520).

#### m:Message Element

The **Message** element specifies an error string that is associated with the **ResponseCode** element, as specified in section [2.2.3.3](#Section_fbfde788e35b4025a417638988e916e5).

1. <xs:element name="Message"
2. type="xs:string"
3. />

The **Message** element is not described in a schema. It is an extension of the SOAP fault structure, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520).

This element MUST be returned when the following condition applies:

* A request that is sent to the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47 is malformed. In this case, the text value of this element MUST be "The request is invalid".

#### m:ResponseCode Element

The **ResponseCode** element specifies a response code that is associated with a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f).

1. <xs:element name="ResponseCode"
2. type="xs:string"
3. />

The **ResponseCode** element is not described in a schema because it is an extension of the SOAP fault structure, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520).

This element MUST be returned when the following condition applies:

* A request that is sent to the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47 is malformed. In this case, the text value of this element MUST be "ErrorInvalidRequest".

### Complex Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are defined by this specification. XML schema complex type definitions that are specific to a particular operation are described with the operation.

| Complex type name | Description |
| --- | --- |
| **PhoneCallIdType**  | Specifies the telephone call identifier. |

#### t:PhoneCallIdType Complex Type

The **PhoneCallIdType** complex type specifies a telephone call identifier.

1. <xs:complexType name="PhoneCallIdType">
2. <xs:attribute name="Id"
3. type="xs:string"
4. use="required"
5. />
6. </xs:complexType>

The following table lists the attributes of the **PhoneCallIdType** complex type.

| Attribute name | Type | Description |
| --- | --- | --- |
| **Id** | **xs:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610)  | Specifies a **string** of maximum 512 characters that identifies the phone call. This attribute MUST be present.  |

The **PhoneCallIdType** complex type is common to the **DisconnectPhoneCall** operation, as specified in section [3.1.4.2](#Section_f5f7ff3cf0e34d4b982c5e02f2aeb3fd), the **GetPhoneCallInformation** operation, as specified in section [3.1.4.4](#Section_844e8bfa91ea4ffea5d040f77198abc1), and the **PlayOnPhone2** operation, as specified in section [3.1.4.7](#Section_6e803ff561b24e3eb0af2689f8c65bae).

### Simple Types

This specification does not define any common XML schema simple types.

### Attributes

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute definitions.

### Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) group definitions.

### Attribute Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute group definitions.

# Protocol Details

## UMWebServiceSoap Server Details

This protocol defines a single [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type that contains a set of operations that enable clients to read and change [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties and to initiate communications between the protocol system server and other devices.

### 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.

#### Phone Call Status State Model

The phone call status server state subsystem specifies the phone call status and the transitions between the different phone call states that can either be read or changed by the Voice Mail Settings Web Service Protocol operations. The state transitions represent Voice Mail Settings Web Service Protocol operation actions or actions taken by subsystems that affect the phone call status state machine.

The following Voice Mail Settings Web Service Protocol operations can cause phone call state changes:

* **PlayOnPhone**
* **PlayOnPhone2**
* **PlayOnPhoneGreeting**
* **Disconnect**
* **DisconnectPhoneCall**

The following Voice Mail Settings Web Service Protocol operations can read phone call state:

* **GetPhoneCallInformation**
* **GetCallInfo**

The following figure shows the Phone Call Status subsystem abstract data model for a phone call initiated by the Voice Mail Settings Web Service Protocol.

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Figure 2: Phone Call Status subsystem abstract data model

The Phone Call Status subsystem abstract data model has the following states:

* **Start**: The state of the phone call status subsystem before a phone call is initiated by either the **PlayOnPhone**, **PlayOnPhone2**, or **PlayOnPhoneGreeting** operations. This is equivalent to the **Idle** state, as specified in sections [3.1.4.3.4.1](#Section_26a0d791f53847b8aa4aee2a3a8745c1) and [3.1.4.4.4.2](#Section_3e86d23db2bb49b69feb7079095cbf85).
* **Connecting**: The phone call status state represents a successful attempt to initiate a phone call. The **Connecting** state can be initiated by either the **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), **PlayOnPhone2** operation, as specified in section [3.1.4.7](#Section_6e803ff561b24e3eb0af2689f8c65bae), or **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5). The **Connecting** state can also be achieved by a phone call that has successfully completed reading a message and has then been used to try to access a contact via the phone call through a voice access subsystem.
* **Connected**: The state of the phone call status subsystem after a call to play an item or greeting on the phone has been connected.
* **Disconnected**: The state of the phone call status subsystem after a phone playing an item or greeting has been physically disconnected, the **Disconnect** operation has been called for the phone call, or the **DisconnectPhoneCall** operation has been called for the phone call.
* **Stop**: The state of the phone call status subsystem after a phone call has ended. This is equivalent to the **Idle** state specified by the **UMCallState** simple type, as specified in section 3.1.4.3.4.1, and the **PhoneCallStateType** simple type, as specified in section 3.1.4.4.4.2. The **Idle** state cannot be read from the Voice Mail Settings Web Service Protocol as no phone call identifiers are associated with the **Idle** state. The **Idle** state can be achieved by transferring a call through the voice access subsystem to a contact, by the communication system ending the phone call, or by timing out a **Disconnected** phone call.

The Phone Call Status subsystem abstract data model has the following transitions:

* **PlayOnPhone\_request:** Represents a successful **PlayOnPhone** operation request message to play an item on a phone.
* **PlayOnPhone2\_request:** Represents a successful **PlayOnPhone2** operation request message to play an item on a phone.
* **PlayOnPhoneGreeting\_request:** Represents a successful **PlayOnPhoneGreeting** operation request message to play a greeting on a phone.
* **GetPhoneCallInformation\_request:** Represents a successful **GetPhoneCallInformation** operation request message to get the status of a phone call.
* **GetCallInfo\_request:** Represents a successful **GetCallInfo** operation request message to get the status of a phone call.
* **Call\_connected:** Represents the transition from a **Connecting** state initiated by a **PlayOnPhone**, **PlayOnPhone2**, or **PlayOnPhoneGreeting** operation to the **Connected** state by the recipient answering the call.
* **Voice\_access\_attempt\_connect:** Represents the phone call transition after an item has been played on phone and then an attempt at using the voice access subsystem to connect the phone call to a contact.
* **Transfer\_from\_Voice\_Access:** Represents a phone call to a contact that has been successfully connected by the voice access subsystem. The phone call status subsystem is no longer accessible for the phone call after the **Transfer\_from\_Voice\_Access** transition.
* **Phone\_hangup:** Represents a transition to the **Disconnected** state caused by a physical disconnection of a phone call.
* **Disconnect\_request:** Represents a transition to the **Disconnected** state caused by a successful **Disconnect** operation request.
* **DisconnectPhoneCall\_request:** Represents a transition to the **Disconnected** state caused by a successful **DisconnectPhoneCall** operation request.
* **Comm\_sys\_bye:** Represents a transition to the **Idle** state caused by the communication system ending a phone call.
* **Call\_timeout:** Represents a transition to the **Idle** state caused by the **Call\_Timeout** timer, as specified in section [3.1.2](#Section_27298bc1b1be44748f6e9b9c63fe7db1).

### Timers

**Call\_timeout:** A per-phone call timer that starts when a phone call enters the **Disconnected** state, as specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049). The timer ends after 32 seconds. The phone call status state machine goes into the **Idle** state after the timer has timed out.

### Initialization

The **Connecting** state, as specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049), is the initial server protocol state. The **Connecting** state is initialized after the server has received a successful request for the **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), **PlayOnPhone2** operation, as specified in section [3.1.4.7](#Section_6e803ff561b24e3eb0af2689f8c65bae), or **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5), from the client. Additional information about arguments that are required to enter the initial state is specified in section [3.2.3](#Section_2b550f79667c48da8aa48730fc64ae0e).

The server state has a **Call\_timeout** timer that is initialized when the server enters the **Disconnected** state.

### Message Processing Events and Sequencing Rules

This protocol uses the operations that are listed in the following table. Sequencing rules are specified in section [3.2.4](#Section_2746a30784164b4288a3c1af7d65e328).

| Operation name | Description |
| --- | --- |
| **Disconnect**  | Disconnects a call whose context handle was returned by the **PlayOnPhone** operation.  |
| **DisconnectPhoneCall** | Disconnects a call whose context handle was returned by the **PlayOnPhone2** operation.[<1>](#Appendix_A_1" \o "Product behavior note 1) |
| **GetCallInfo**  | Returns information about a call whose context handle was returned by the **PlayOnPhone** operation.  |
| **GetPhoneCallInformation**  | Returns information about a call whose context handle was returned by the **PlayOnPhone2** operation.[<2>](#Appendix_A_2" \o "Product behavior note 2)  |
| **GetUMProperties**  | Returns a list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties.  |
| **IsUMEnabled**  | Returns a value that indicates whether the user who is making the request is enabled for Unified Messaging.  |
| **PlayOnPhone2** | Requests that an outbound call is performed and plays a voice message or mailbox item over the telephone.[<3>](#Appendix_A_3" \o "Product behavior note 3) |
| **PlayOnPhone**  | Requests that an outbound call is performed and plays a voice message or mailbox item over the telephone.  |
| **PlayOnPhoneGreeting**  | Makes an outbound call to play and record a greeting over the telephone.  |
| **ResetPIN**  | Creates a new Unified Messaging password for the user who is making the request.  |
| **SetMissedCallNotificationEnabled** | Sets a value that indicates whether missed call notifications are enabled for the user who is making the request.  |
| **SetOofStatus**  | Sets a value that indicates whether the [**Out of Office (OOF)**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is enabled for the user who is making the request.  |
| **SetPlayOnPhoneDialString** | Sets the default telephone number that is used in **PlayOnPhone** and **PlayOnPhoneGreeting** operation requests.  |
| **SetTelephoneAccessFolderEmail** | Sets the mailbox folder from which the Unified Messaging server will read back to the user over the telephone.  |

#### Disconnect Operation

The **Disconnect** operation disconnects a call. The **Disconnect** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

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

1. <wsdl:operation name="Disconnect">
2. <wsdl:input message="tns:DisconnectSoapIn" />
3. <wsdl:output message="tns:DisconnectSoapOut" />
4. </wsdl:operation>

The following is the WSDL binding specification of the operation.

1. <wsdl:operation name="Disconnect">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/Disconnect" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **DisconnectResponse** element is returned. If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **Disconnect** operation specifies an incorrect phone call identifier in the **CallId** element, as specified in section [3.1.4.1.2.1](#Section_bf216f41cfca4ff7a8a1ddce9e5f4849), or if this element is not specified. The following [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) specifies the SOAP fault response that SHOULD[<4>](#Appendix_A_4" \o "Product behavior note 4) be returned if an invalid phone call identifier is provided as an argument to a **Disconnect** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/errors">a:InvalidCallIdException</faultcode>
6. <faultstring xml:lang="en-US">The call identifier isn't valid.</faultstring>
7. <detail>
8. <m:ExceptionType xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">InvalidCallIdException</m:ExceptionType>
9. </detail>
10. </s:Fault>
11. </s:Body>
12. </s:Envelope>

The **faultcode** element SHOULD[<5>](#Appendix_A_5" \o "Product behavior note 5) contain a text value of "a:InvalidCallIdException" if an invalid phone call identifier is sent in the request.

The **faultstring** element SHOULD[<6>](#Appendix_A_6" \o "Product behavior note 6) contain a text value of "The call identifier isn't valid**."** if an invalid phone call identifier is sent in the request.

The contents of the SOAP fault **detail** element are specified by the **ExceptionType** element, as specified in section [2.2.3.1](#Section_2b75339603134b719c3b318482a3cb9d).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **DisconnectSoapIn**  | Specifies the request that disconnects a phone call. |
| **DisconnectSoapOut**  | Specifies a successful response to a request that disconnects a phone call. |

###### DisconnectSoapIn Message

The **DisconnectSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **Disconnect** operation request.

1. <wsdl:message name="DisconnectSoapIn">
2. <wsdl:part name="parameters" element="tns:Disconnect" />
3. </wsdl:message>

The **DisconnectSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/Disconnect.

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **Disconnect** element.

The parts of the **DisconnectSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **Disconnect** (section [3.1.4.1.2.1](#Section_bf216f41cfca4ff7a8a1ddce9e5f4849)) | Specifies the information that is required to disconnect a telephone call.  |

###### DisconnectSoapOut Message

The **DisconnectSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **Disconnect** operation response.

The SOAP body contains a **DisconnectResponse** element.

1. <wsdl:message name="DisconnectSoapOut">
2. <wsdl:part name="parameters" element="tns:DisconnectResponse" />
3. </wsdl:message>

The parts of the **DisconnectSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **DisconnectResponse** (section [3.1.4.1.2.2](#Section_77d3252c8d0e424ca6cc1f0799a443e6)) | Specifies a successful response to a **Disconnect** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) elements that are specific to this operation.

| Element | Description |
| --- | --- |
| **Disconnect**  | Specifies a request to disconnect a phone call. |
| **DisconnectResponse**  | Specifies the response body content for a **DisconnectSoapOut** response message. |

###### m:Disconnect Element

The **Disconnect** element specifies a request to disconnect a phone call. This element MUST be present in a **Disconnect** operation request.

1. <xs:element name="Disconnect">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="CallId"
5. type="xs:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **Disconnect** element.

| Element | Type | Description |
| --- | --- | --- |
| **CallId** | **xs:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the phone call identifier of the call to disconnect. This identifier is returned by the **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c) or the **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5). This element MUST be present. If this element is not specified or if it contains an incorrect phone call identifier, the server MUST return a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in section [3.1.4.1](#Section_16f25ad20b9c4a36b47c392700103f9d). |

###### m:DisconnectResponse Element

The **DisconnectResponse** element specifies the response body content for a **DisconnectSoapOut** response message. This element MUST be present.

1. <xs:element name="DisconnectResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DisconnectPhoneCall Operation

The **DisconnectPhoneCall** operation disconnects a call. The **DisconnectPhoneCall** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.24.[<7>](#Appendix_A_7" \o "Product behavior note 7)

The following is the WSDL port type specification for the operation.

1. <wsdl:operation name="DisconnectPhoneCall">
2. <wsdl:input message="tns:DisconnectPhoneCallSoapIn" />
3. <wsdl:output message="tns:DisconnectPhoneCallSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="DisconnectPhoneCall">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DisconnectPhoneCall"/>
3. <wsdl:input>
4. <soap:body parts="request" use="literal"/>
5. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="Impersonation" use="literal"/>
6. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="MailboxCulture" use="literal"/>
7. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="RequestVersion" use="literal"/>
8. </wsdl:input>
9. <wsdl:output>
10. <soap:body parts="DisconnectPhoneCallResult" use="literal"/>
11. <soap:header message="tns:DisconnectPhoneCallSoapOut" part="ServerVersion" use="literal"/>
12. </wsdl:output>
13. </wsdl:operation>

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **DisconnectPhoneCallSoapIn**  | Specifies the request that disconnects a phone call. |
| **DisconnectPhoneCallSoapOut**  | Specifies the response to a request that disconnects a phone call. |

###### DisconnectPhoneCallSoapIn Message

The **DisconnectPhoneCallSoapIn** WSDL message specifies the **DisconnectPhoneCall** operation request.

1. <wsdl:message name="DisconnectPhoneCallSoapIn">
2. <wsdl:part name="request" element="tns:DisconnectPhoneCall"/>
3. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
4. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
5. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
6. </wsdl:message>

The **DisconnectPhoneCallSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/DisconnectPhoneCall.

The parts of the **DisconnectPhoneCallSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **request** | **DisconnectPhoneCall** (section [3.1.4.2.2.1](#Section_bef4dbbde6de4eddac13707f668ca473)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the request.  |
| **Impersonation** | **ExchangeImpersonation** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.3) | Specifies a [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the user whom the client application is impersonating. The **ExchangeImpersonation** element is specified in [MS-OXWSCDATA] section 2.2.3.3. |
| **MailboxCulture** | **MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6) | Specifies a SOAP header that identifies the language to use to access the mailbox. The languages are defined by [[RFC3066]](https://go.microsoft.com/fwlink/?LinkId=90404). |
| **RequestVersion** | **RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9) | Specifies a SOAP header that identifies the target schema version for the **DisconnectPhoneCall** operation request. The **RequestServerVersion** element is specified in [MS-OXWSCDATA] section 2.2.3.9. |

###### DisconnectPhoneCallSoapOut Message

The **DisconnectPhoneCallSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **DisconnectPhoneCall** operation response.

1. <wsdl:message name="DisconnectPhoneCallSoapOut">
2. <wsdl:part name="DisconnectPhoneCallResult" element="tns:DisconnectPhoneCallResponse"/>
3. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
4. </wsdl:message>

The **DisconnectPhoneCallSoapOut** WSDL message is the output message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/DisconnectPhoneCall.

The parts of the **DisconnectPhoneCallSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **DisconnectPhoneCallResult** | **DisconnectPhoneCallResponse** (section [3.1.4.2.2.2](#Section_1256514635c64936aea3e7a1352ab36d)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the response. |
| **ServerVersion** | **ServerVersionInfo** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.10) | Specifies the [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the server version for the response. The **ServerVersionInfo** element is specified in [MS-OXWSCDATA] section 2.2.3.10. |

A successful **DisconnectPhoneCall** operation response includes a text value of **Success** in the **ResponseClass** attribute of the **DisconnectPhoneCallResponse** XML instance element (section 3.1.4.2.2.2). The **ResponseCode** child element of the **DisconnectPhoneCallResponse** XML instance element has a text value of "NoError".

A **DisconnectPhoneCall** operation error response caused by an invalid phone call identifier has a text value of "Error" in the **ResponseClass** attribute of the **DisconnectPhoneCallResponse** XML instance element (section 3.1.4.2.2.2). The **ResponseCode** child element of the **DisconnectPhoneCallResponse** XML instance element has a text value of "ErrorInvalidPhoneCallId". The **MessageText** child element of the **DisconnectPhoneCallResponse** XML instance element has a text value of "The phone call ID isn't valid".

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DisconnectPhoneCall** | Specifies a request to disconnect a call. |
| **DisconnectPhoneCallResponse** | Specifies a response to a request to disconnect a call. |

###### m:DisconnectPhoneCall Element

The **DisconnectPhoneCall** element specifies a request to disconnect a call. This element MUST be present.

1. <xs:element name="DisconnectPhoneCall"
2. type="m:DisconnectPhoneCallType"
3. />

###### m:DisconnectPhoneCallResponse Element

The **DisconnectPhoneCallResponse** element specifies a response to disconnect a call. This element MUST be present.

1. <xs:element name="DisconnectPhoneCallResponse"
2. type="m:DisconnectPhoneCallResponseMessageType"
3. />

##### Complex Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **DisconnectPhoneCallResponseMessageType**  | Specifies a response to a **DisconnectPhoneCall** operation request. |
| **DisconnectPhoneCallType**  | Specifies a **DisconnectPhoneCall** operation request. |

###### m:DisconnectPhoneCallResponseMessageType Complex Type

The **DisconnectPhoneCallResponseMessageType** complex type specifies a response to a **DisconnectPhoneCall** operation request. The **DisconnectPhoneCallResponseMessageType** complex type extends the **ResponseMessageType** type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.67. For more details, see section [3.1.4.2](#Section_f5f7ff3cf0e34d4b982c5e02f2aeb3fd).

1. <xs:complexType name="DisconnectPhoneCallResponseMessageType">
2. <xs:complexContent>
3. <xs:extension
4. base="m:ResponseMessageType"
5. />
6. </xs:complexContent>
7. </xs:complexType>

###### m:DisconnectPhoneCallType Complex Type

The **DisconnectPhoneCallType** complex type specifies a **DisconnectPhoneCall** operation request. The **DisconnectPhoneCallType** complex type extends the **BaseRequestType** complex type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.17.

1. <xs:complexType name="DisconnectPhoneCallType">
2. <xs:complexContent>
3. <xs:extension
4. base="BaseRequestType"
5. >
6. <xs:sequence>
7. <xs:element name="PhoneCallId"
8. type="t:PhoneCallIdType"
9. />
10. </xs:sequence>
11. </xs:extension>
12. </xs:complexContent>
13. </xs:complexType>

The following table lists the child elements of the **DisconnectPhoneCallType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PhoneCallId** | **t:PhoneCallIdType** (section [2.2.4.1](#Section_8703ce85d2bf45ffa550b4b701068796)) | Specifies the identifier of the phone call to disconnect. This element MUST occur only once. |

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetCallInfo Operation

The **GetCallInfo** operation returns information about a call. The **GetCallInfo** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="GetCallInfo">
2. <wsdl:input message="tns:GetCallInfoSoapIn" />
3. <wsdl:output message="tns:GetCallInfoSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="GetCallInfo">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetCallInfo" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **GetCallInfoResponse** element is returned. If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault is returned if the **GetCallInfo** operation specifies an incorrect phone call identifier in the **CallId** element, as specified in section [3.1.4.3.2.1](#Section_caa9c7008aa441eb9f40c982e43d0389). The following [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) specifies the SOAP fault response that SHOULD[<8>](#Appendix_A_8" \o "Product behavior note 8) be returned if an invalid phone call identifier is provided as an argument to a **GetCallInfo** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/errors">a:InvalidCallIdException</faultcode>
6. <faultstring xml:lang="en-US">The call identifier isn't valid.</faultstring>
7. <detail>
8. <ExceptionType xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">InvalidCallIdException</ExceptionType>
9. </detail>
10. </s:Fault>
11. </s:Body>
12. </s:Envelope>

The **faultcode** element SHOULD[<9>](#Appendix_A_9" \o "Product behavior note 9) have a text value of "a:InvalidCallIdException" if an invalid phone call identifier is sent in the request.

The **faultstring** element SHOULD[<10>](#Appendix_A_10" \o "Product behavior note 10) have a text value of "The call identifier isn't valid**."** if an invalid phone call identifier is sent in the request.

The contents of the SOAP fault **detail** element are specified by the **ExceptionType** element, as specified in section [2.2.3.1](#Section_2b75339603134b719c3b318482a3cb9d).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **GetCallInfoSoapIn**  | Specifies the request to get information about a phone call. |
| **GetCallInfoSoapOut**  | Specifies the response to a request to get information about a phone call. |

###### GetCallInfoSoapIn Message

The **GetCallInfoSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **GetCallInfo** operation request.

1. <wsdl:message name="GetCallInfoSoapIn">
2. <wsdl:part name="parameters" element="tns:GetCallInfo" />
3. </wsdl:message>

The **GetCallInfoSoapIn** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/GetCallInfo.

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **GetCallInfo** element.

The parts of the **GetCallInfoSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **GetCallInfo** (section [3.1.4.3.2.1](#Section_caa9c7008aa441eb9f40c982e43d0389)) | Specifies SOAP body that contains the data that is required to get information about a telephone call.  |

###### GetCallInfoSoapOut Message

The **GetCallInfoSoapOut** WSDL message specifies the **GetCallInfo** operation response.

1. <wsdl:message name="GetCallInfoSoapOut">
2. <wsdl:part name="parameters" element="tns:GetCallInfoResponse" />
3. </wsdl:message>

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains a **GetCallInfoResponse** element.

The parts of the **GetCallInfoSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) are described in the following table.

| Part mame | Element/type | Description |
| --- | --- | --- |
| **parameters** | **GetCallInfoResponse** (section [3.1.4.3.2.2](#Section_aa1f3b1e36b944d08809b644de6ca7e5)) | Specifies the SOAP body that contains a response to a **GetCallInfo** operation request.  |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **GetCallInfo**  | Specifies a request to get information about a phone call. |
| **GetCallInfoResponse**  | Specifies a response to a **GetCallInfo** operation request. |

###### m:GetCallInfo Element

The **GetCallInfo** element specifies a request to get information about a phone call. This element MUST be present.

1. <xs:element name="GetCallInfo">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="CallId"
5. type="xs:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **GetCallInfo** element.

| Element | Type | Description |
| --- | --- | --- |
| **CallId** | **xs:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies a **string** with a maximum of 512 characters that identifies the call for which to request information. This identifier is returned as part of the **PlayOnPhone** operation (section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c)) or the **PlayOnPhoneGreeting** operation (section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5)). This element MUST be present. The [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) specified in section [3.1.4.3](#Section_2dddda8d40114ce2926630e1e0257463) MUST be returned if the **CallId** element value is an incorrect call identifier.  |

###### m:GetCallInfoResponse Element

The **GetCallInfoResponse** element specifies a response to a **GetCallInfo** request. This element MUST be present.

1. <xs:element name="GetCallInfoResponse"
2. maxOccurs="1"
3. minOccurs="1"
4. >
5. <xs:complexType>
6. <xs:sequence>
7. <xs:element name="GetCallInfoResponse"
8. type="tns:UMCallInfo"
9. maxOccurs="1"
10. minOccurs="0"
11. />
12. </xs:sequence>
13. </xs:complexType>
14. </xs:element>

The following table lists the child elements of the **GetCallInfoResponse** element.

| Element name | Type | Description |
| --- | --- | --- |
| **GetCallInfoResponse** | **tns:UMCallInfo** (section [3.1.4.3.3.1](#Section_4613646722f54c12918996c9f4127453)) | Specifies information about the status of a phone call. This element MUST be present.  |

##### Complex Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type name | Description |
| --- | --- |
| **UMCallInfo**  | Specifies the phone call status and provides information about what caused a phone call to reach the **Disconnected** state. |

###### tns:UMCallInfo Complex Type

The **UMCallInfo** complex type specifies the phone call status and provides information about what caused a phone call to enter the **Disconnected** state.

1. <xs:complexType name="UMCallInfo">
2. <xs:sequence>
3. <xs:element name="CallState"
4. type="tns:UMCallState"
5. maxOccurs="1"
6. minOccurs="1"
7. />
8. <xs:element name="EventCause"
9. type="tns:UMEventCause"
10. maxOccurs="1"
11. minOccurs="1"
12. />
13. </xs:sequence>
14. </xs:complexType>

The following table lists the child elements of the **UMCallInfo** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **CallState** | **tns:UMCallState** (section [3.1.4.3.4.1](#Section_26a0d791f53847b8aa4aee2a3a8745c1)) | Specifies a value that indicates the status of a call for which the **GetCallInfo** operation requested information. This element MUST be present.  |
| **EventCause** | **tns:UMEventCause** (section [3.1.4.3.4.2](#Section_aa2f61a0ef33451ba5f4fd29a644dc19)) | Specifies a value that indicates the [**event**](#gt_472f97f2-82ec-4623-8e46-d348a7984967) that caused a call to enter the **Disconnected** state. This element MUST be present. |

##### Simple Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type name | Description |
| --- | --- |
| **UMCallState**  | Specifies the state of a phone call at the time that the **GetCallInfo** operation request is successfully processed. |
| **UMEventCause**  | Specifies the reason that a phone call was disconnected. |

###### tns:UMCallState Simple Type

The **UMCallState** simple type specifies the state of a phone call at the time that the **GetCallInfo** operation request is successfully processed.

1. <xs:simpleType name="UMCallState">
2. <xs:restriction
3. base="s:string"
4. >
5. <xs:enumeration
6. value="Idle"
7. />
8. <xs:enumeration
9. value="Connecting"
10. />
11. <xs:enumeration
12. value="Alerted"
13. />
14. <xs:enumeration
15. value="Connected"
16. />
17. <xs:enumeration
18. value="Disconnected"
19. />
20. <xs:enumeration
21. value="Incoming"
22. />
23. <xs:enumeration
24. value="Transferring"
25. />
26. <xs:enumeration
27. value="Forwarding"
28. />
29. </xs:restriction>
30. </xs:simpleType>

The following enumeration values are defined by the **UMCallState** simple type.

| Value | Meaning |
| --- | --- |
| Idle | Specifies the initial state of the phone call system before a phone call has been initiated and after a phone call has exited the **Disconnected** state. No phone call context [**handle**](#gt_5044babb-08e3-4bb9-bc12-fe8f542b05ee) is associated with this state and therefore this state is not applicable to this protocol. |
| Connecting | Specifies that the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) system is dialing or waiting for a phone to answer the call. This value MUST be sent to the client when the Unified Messaging system is dialing or waiting for a phone to answer the call. |
| Alerted | This state is not applicable to this protocol. |
| Connected | Specifies that a phone call between the Unified Messaging system and a telephone is connected. This value MUST be sent to the client when the Unified Messaging system and the telephone are connected. |
| Disconnected | Specifies that a phone call between the Unified Messaging system and a telephone has been disconnected. This value MUST be sent to the client when the Unified Messaging system and the telephone are disconnected. |
| Incoming | This state is not applicable to this protocol. |
| Transferring | This state is not applicable to this protocol. |
| Forwarding | This state is not applicable to this protocol. |

The phone call status system state model is specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049).

###### tns:UMEventCause Simple Type

The **UMEventCause** simple type specifies the reason that a phone call was disconnected.

1. <xs:simpleType name="UMEventCause">
2. <xs:restriction
3. base="s:string"
4. >
5. <xs:enumeration
6. value="None"
7. />
8. <xs:enumeration
9. value="UserBusy"
10. />
11. <xs:enumeration
12. value="NoAnswer"
13. />
14. <xs:enumeration
15. value="Unavailable"
16. />
17. <xs:enumeration
18. value="Other"
19. />
20. </xs:restriction>
21. </xs:simpleType>

The following enumeration values are defined by the **UMEventCause** simple type.

| Value | Meaning |
| --- | --- |
| None | Specifies that a call is not in the **Disconnected** state or that the disconnect reason is unknown. This value MUST be returned if the phone call is not in the **Disconnected** state. |
| UserBusy | Specifies that the called party line was busy. This value MUST be returned if the party line is busy. |
| NoAnswer | Specifies that the called party did not answer. This value MUST be returned if the call is not answered. This value is not accessible through this protocol. |
| Unavailable | Specifies that the called party number was not available. This value MUST be returned if the phone number that was called is not available. This value is not accessible through this protocol. |
| Other | Specifies all other disconnect reasons. This value MUST be returned if the **None**, **UserBusy**, **NoAnswer**, or **Unavailable** values are not applicable to specify the reason why a phone call is in the **Disconnected** state. This value is not accessible through this protocol. |

The phone call status system state model is specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049).

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetPhoneCallInformation Operation

The **GetPhoneCallInformation** operation gets information about a telephone call. The **GetPhoneCallInformation** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.24.[<11>](#Appendix_A_11" \o "Product behavior note 11)

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="GetPhoneCallInformation">
2. <wsdl:input message="tns:GetPhoneCallInformationSoapIn" />
3. <wsdl:output message="tns:GetPhoneCallInformationSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="GetPhoneCallInformation">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetPhoneCallInformation"/>
3. <wsdl:input>
4. <soap:body parts="request" use="literal"/>
5. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="Impersonation" use="literal"/>
6. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="MailboxCulture" use="literal"/>
7. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="RequestVersion" use="literal"/>
8. </wsdl:input>
9. <wsdl:output>
10. <soap:body parts="GetPhoneCallInformationResult" use="literal"/>
11. <soap:header message="tns:GetPhoneCallInformationSoapOut" part="ServerVersion" use="literal"/>
12. </wsdl:output>
13. </wsdl:operation>

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **GetPhoneCallInformationSoapIn**  | Specifies the request to get information about a phone call. |
| **GetPhoneCallInformationSoapOut** | Specifies the response to a request to get information about a phone call. |

###### GetPhoneCallInformationSoapIn

The **GetPhoneCallInformationSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **GetPhoneCallInformation** operation request.

1. <wsdl:message name="GetPhoneCallInformationSoapIn">
2. <wsdl:part name="request" element="tns:GetPhoneCallInformation"/>
3. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
4. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
5. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
6. </wsdl:message>

The **GetPhoneCallInformationSoapIn** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/GetPhoneCallInformation.

The parts of the **GetPhoneCallInformationSoapIn** message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **request** | **tns:GetPhoneCallInformation** (section [3.1.4.4.2.1](#Section_546db40326d7442aae5cfd3d28191658)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the request.  |
| **Impersonation** | **t:ExchangeImpersonation** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.3) | Specifies a [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the user whom the client application is impersonating. |
| **MailboxCulture** | **t:MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6) | Specifies a SOAP header that identifies the language to use to access the mailbox. The languages are defined by [[RFC3066]](https://go.microsoft.com/fwlink/?LinkId=90404). |
| **RequestVersion** | **t:RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9) | Specifies a SOAP header that identifies the target schema version for the **GetPhoneCallInformation** operation request.  |

###### GetPhoneCallInformationSoapOut

The **GetPhoneCallInformationSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **GetPhoneCallInformation** operation response.

1. <wsdl:message name="GetPhoneCallInformationSoapOut">
2. <wsdl:part name="GetPhoneCallInformationResult" element="tns:GetPhoneCallInformationResponse"/>
3. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
4. </wsdl:message>

The **GetPhoneCallInformationSoapOut** WSDL message is the output message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/GetPhoneCallInformation.

The parts of the **GetPhoneCallInformationSoapOut** message are listed in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **GetPhoneCallInformationResult** | **tns:GetPhoneCallInformationResponse** (section [3.1.4.4.2.2](#Section_43c6783635bf40aabb95381d18af662c)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the response. |
| **ServerVersion** | **t:ServerVersionInfo** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.10) | Specifies the [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the server version for the response.  |

A successful **GetPhoneCallInformation** operation response has a text value of "Success" for the **ResponseClass** attribute of the **GetPhoneCallInformationResponse** [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) instance element. The **ResponseCode** child element of the **GetPhoneCallInformationResponse** XML instance element MUST have a text value of "NoError".

A **GetPhoneCallInformation** operation error response caused by an invalid phone call identifier MUST have a text value of "Error" for the **ResponseClass** attribute of the **GetPhoneCallInformationResponse** XML instance element. The **ResponseCode** child element of the **GetPhoneCallInformationResponse** XML instance element MUST have a text value of "ErrorInvalidPhoneCallId". The **MessageText** child element of the **GetPhoneCallInformationResponse** XML instance element MUST have a text value of "The phone call ID isn't valid".

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **GetPhoneCallInformation**  | Specifies a request to get information about a phone call. |
| **GetPhoneCallInformationResponse**  | Specifies a response to **GetPhoneCallInformation** operation request. |

###### m:GetPhoneCallInformation Element

The **GetPhoneCallInformation** element specifies a request to get telephone call information. This element MUST be present.

1. <xs:element name="GetPhoneCallInformation"
2. type="m:GetPhoneCallInformationType"
3. />

###### m:GetPhoneCallInformationResponse Element

The **GetPhoneCallInformationResponse** element specifies a response to get telephone call information. This element MUST be present.

1. <xs:element name="GetPhoneCallInformationResponse"
2. type="m:GetPhoneCallInformationResponseMessageType"
3. />

##### Complex Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type name | Description |
| --- | --- |
| **GetPhoneCallInformationType**  | Specifies a request to get telephone call information. |
| **GetPhoneCallInformationResponseMessageType**  | Specifies a response to a request to get telephone call information. |
| **PhoneCallInformationType**  | Specifies the state information for a telephone call. |

###### m:GetPhoneCallInformationType Complex Type

The **GetPhoneCallInformationType** complex type specifies a request to get telephone call information. The **GetPhoneCallInformationType** complex type extends the **BaseRequestType** complex type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.17.

1. <xs:complexType name="GetPhoneCallInformationType">
2. <xs:complexContent>
3. <xs:restriction
4. base="m:BaseRequestType"
5. >
6. <xs:sequence>
7. <xs:element name="PhoneCallId"
8. type="t:PhoneCallIdType"
9. maxOccurs="1"
10. minOccurs="1"
11. />
12. </xs:sequence>
13. </xs:restriction>
14. </xs:complexContent>
15. </xs:complexType>

The following table lists the child elements of the **GetPhoneCallInformationType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PhoneCallId** | **t:PhoneCallIdType** (section [2.2.4.1](#Section_8703ce85d2bf45ffa550b4b701068796)) | Specifies the identifier of the telephone call. This element MUST occur only once. |

The **BaseRequestType** complex type is an abstract type. The **BaseRequestType** complex type is specified in [MS-OXWSCDATA] section 2.2.4.17.

###### m:GetPhoneCallInformationResponseMessageType Complex Type

The **GetPhoneCallInformationResponseMessageType** complex type specifies a response to a request to get telephone call information. The **GetPhoneCallInformationResponseMessageType** complex type extends the **ResponseMessageType** type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.67.

1. <xs:complexType name="GetPhoneCallInformationResponseMessageType">
2. <xs:complexContent>
3. <xs:extension
4. base="m:ResponseMessageType"
5. >
6. <xs:sequence>
7. <xs:element name="PhoneCallInformation"
8. type="t:PhoneCallInformationType"
9. maxOccurs="1"
10. minOccurs="0"
11. />
12. </xs:sequence>
13. </xs:extension>
14. </xs:complexContent>
15. </xs:complexType>

The following table lists the child elements of the **GetPhoneCallInformationResponseMessageType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PhoneCallInformation** | **t:PhoneCallInformationType** (section [3.1.4.4.3.3](#Section_fdc6cd05837b4d8db67f13f89d16682a)) | Specifies the state information for a telephone call. This element MUST be present for a successful response. This element MUST NOT be present in the case of an error response.  |

###### t:PhoneCallInformationType Complex Type

The **PhoneCallInformationType** complex type specifies the state information for a telephone call.

1. <xs:complexType name="PhoneCallInformationType">
2. <xs:sequence>
3. <xs:element name="PhoneCallState"
4. type="t:PhoneCallStateType"
5. maxOccurs="1"
6. minOccurs="1"
7. />
8. <xs:element name="ConnectionFailureCause"
9. type="t:ConnectionFailureCauseType"
10. maxOccurs="1"
11. minOccurs="1"
12. />
13. <xs:element name="SIPResponseText"
14. type="xs:string"
15. minOccurs="0"
16. maxOccurs="1"
17. />
18. <xs:element name="SIPResponseCode"
19. type="xs:int"
20. minOccurs="0"
21. maxOccurs="1"
22. />
23. </xs:sequence>
24. </xs:complexType>

The following table lists the child elements of the **PhoneCallInformationType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PhoneCallState** | **t:PhoneCallStateType** (section [3.1.4.4.4.2](#Section_3e86d23db2bb49b69feb7079095cbf85)) | Specifies the state for a telephone call. This element MUST be present. The phone call system state diagram is specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049). |
| **ConnectionFailureCause** | **t:ConnectionFailureCauseType** (section [3.1.4.4.4.1](#Section_3b54f6c5d15a436aa41c723f89d4fd86)) | Specifies the reason why a telephone call was disconnected. This element MUST be present.  |
| **SIPResponseText** | **xs:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the [**Session Initiation Protocol (SIP)**](#gt_586971aa-3b65-4de3-be93-1a9756777d89), as defined in [[RFC3261]](https://go.microsoft.com/fwlink/?LinkId=90410), response text. This text is always "OK". This element MUST NOT be present for a successful **GetPhoneCallInformation** operation response.  |
| **SIPResponseCode** | **xs:int** [XMLSCHEMA2] | Specifies the Session Initiation Protocol (SIP), as defined in [RFC3261], response code. This code is always 200. This element MUST NOT be present for a successful **GetPhoneCallInformation** operation response.  |

##### Simple Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type name | Description |
| --- | --- |
| **ConnectionFailureCauseType**  | Specifies the reason that a telephone call was disconnected.  |
| **PhoneCallStateType**  | Specifies the state of a telephone call at the time that the **GetPhoneCallInformation** operation request is successfully processed. |

###### t:ConnectionFailureCauseType Simple Type

The **ConnectionFailureCauseType** simple type specifies the disconnect reason of a telephone call.

1. <xs:simpleType>
2. <xs:restriction
3. base="xs:string"
4. >
5. <xs:enumeration
6. value="None"
7. />
8. <xs:enumeration
9. value="UserBusy"
10. />
11. <xs:enumeration
12. value="NoAnswer"
13. />
14. <xs:enumeration
15. value="Unavailable"
16. />
17. <xs:enumeration
18. value="Other"
19. />
20. </xs:restriction>
21. </xs:simpleType>

The following enumeration values are defined by the simple type.

| Value | Meaning |
| --- | --- |
| None | Specifies that a call is not in the **Disconnected** state or that the disconnect reason is unknown. This value MUST be returned if the phone call is not in the **Disconnected** state. |
| UserBusy | Specifies that the called party line was busy. This value MUST be returned if the party line is busy. |
| NoAnswer | Specifies that the called party did not answer. This value MUST be returned if the call is not answered. This value is not accessible through this protocol. |
| Unavailable | Specifies that the called party number was not available. This value MUST be returned if the phone number that was called is not available. This value is not accessible through this protocol. |
| Other | Specifies all other disconnect reasons. This value MUST be returned if the "None", "UserBusy", "NoAnswer", or "Unavailable" values are not applicable to specify the reason why a phone call is in the **Disconnected** state. This value is not accessible through this protocol. |

The **xs:string** type is specified in [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610). The phone call status system state model is specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049).

###### t:PhoneCallStateType Simple Type

The **PhoneCallStateType** simple type specifies the current state for a phone call.

1. <xs:simpleType>
2. <xs:restriction
3. base="xs:string"
4. >
5. <xs:enumeration
6. value="Idle"
7. />
8. <xs:enumeration
9. value="Connecting"
10. />
11. <xs:enumeration
12. value="Alerted"
13. />
14. <xs:enumeration
15. value="Connected"
16. />
17. <xs:enumeration
18. value="Disconnected"
19. />
20. <xs:enumeration
21. value="Incoming"
22. />
23. <xs:enumeration
24. value="Transferring"
25. />
26. <xs:enumeration
27. value="Forwarding"
28. />
29. </xs:restriction>
30. </xs:simpleType>

The following enumeration values are defined by the **PhoneCallStateType** simple type.

| Value | Meaning |
| --- | --- |
| Idle | Specifies the initial state of the phone call system before a phone call has been initiated and after a phone call has exited the **Disconnected** state. No phone call context handle is associated with this state and therefore this state is not applicable to this protocol. |
| Connecting | Specifies that the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) system is dialing or waiting for a phone to answer the call. This value MUST be sent to the client when the Unified Messaging system is dialing or waiting for a phone to answer the call. |
| Alerted | This state is not applicable to this protocol. |
| Connected | Specifies that a call between the Unified Messaging system and a telephone is connected. This value MUST be sent to the client when the Unified Messaging system and the telephone are connected. |
| Disconnected | Specifies that a call between the Unified Messaging system and a telephone device is disconnected. This value MUST be sent to the client when the Unified Messaging system and the telephone are disconnected. |
| Incoming | This state is not applicable to this protocol. |
| Transferring | This state is not applicable to this protocol. |
| Forwarding | This state is not applicable to this protocol. |

The phone call status system state model is specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049).

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetUMProperties Operation

The **GetUMProperties** operation returns a list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. The **GetUMProperties** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="GetUMProperties">
2. <wsdl:input message="tns:GetUMPropertiesSoapIn" />
3. <wsdl:output message="tns:GetUMPropertiesSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="GetUMProperties">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUMProperties" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **GetUMPropertiesResponse** element is returned. If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault response MUST be returned if the **GetUMPropertiesSoapIn** message request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **GetUMPropertiesSoapIn**  | Specifies the request to get [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. |
| **GetUMPropertiesSoapOut**  | Specifies the response to a request to get Unified Messaging properties. |

###### GetUMPropertiesSoapIn Message

The **GetUMPropertiesSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **GetUMProperties** operation request.

1. <wsdl:message name="GetUMPropertiesSoapIn">
2. <wsdl:part name="parameters" element="tns:GetUMProperties" />
3. </wsdl:message>

The **GetUMPropertiesSoapIn** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/GetUMProperties.

The SOAP body contains a **GetUMProperties** element.

The parts of the **GetUMPropertiesSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **GetUMProperties** (section [3.1.4.5.2.1](#Section_5f8420e05be34cab93dd1a5a2ecb2e9d)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) that contains the information that is required to get [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. |

###### GetUMPropertiesSoapOut Message

The **GetUMPropertiesSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **GetUMProperties** operation response.

1. <wsdl:message name="GetUMPropertiesSoapOut">
2. <wsdl:part name="parameters" element="tns:GetUMPropertiesResponse" />
3. </wsdl:message>

The SOAP body contains a **GetUMPropertiesResponse** element.

The parts of the **GetUMPropertiesSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **GetUMPropertiesResponse** (section [3.1.4.5.2.2](#Section_325e1dd167a34ddf9a3a9bde5a632bac)) | Specifies a response to a **GetUMProperties** operation request.  |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **GetUMProperties**  | Specifies a request to get [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. |
| **GetUMPropertiesResponse**  | Specifies a response to a **GetUMProperties** operation request. |

###### m:GetUMProperties Element

The **GetUMProperties** element specifies a request to get [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. This element MUST be present.

1. <xs:element name="GetUMProperties">
2. <xs:complexType />
3. </xs:element>

###### m:GetUMPropertiesResponse Element

The **GetUMPropertiesResponse** element specifies a response to a **GetUMProperties** operation request. This element MUST be present for successful **GetUMProperties** operation response messages.

1. <xs:element name="GetUMPropertiesResponse">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="GetUMPropertiesResponse"
5. type="tns:UMProperties"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **GetUMPropertiesResponse** element.

| Element name | Type | Description |
| --- | --- | --- |
| **GetUMPropertiesResponse** | **tns:UMProperties** (section [3.1.4.5.3.1](#Section_c3b99fd77c2d400fa76763bb76469018)) | Specifies a list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. This element MUST be present.  |

##### Complex Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type name | Description |
| --- | --- |
| **UMProperties**  | Specifies a list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties. |

###### m:UMProperties Complex Type

The **UMProperties** complex type specifies a list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties.

1. <xs:complexType name="UMProperties">
2. <xs:sequence>
3. <xs:element name="OofStatus"
4. type="s:boolean"
5. maxOccurs="1"
6. minOccurs="1"
7. />
8. <xs:element name="MissedCallNotificationEnabled"
9. type="s:boolean"
10. maxOccurs="1"
11. minOccurs="1"
12. />
13. <xs:element name="PlayOnPhoneDialString"
14. type="s:string"
15. maxOccurs="1"
16. minOccurs="0"
17. />
18. <xs:element name="TelephoneAccessNumbers"
19. type="s:string"
20. maxOccurs="1"
21. minOccurs="0"
22. />
23. <xs:element name="TelephoneAccessFolderEmail"
24. type="s:string"
25. maxOccurs="1"
26. minOccurs="0"
27. />
28. </xs:sequence>
29. </xs:complexType>

The following table lists the child elements of the **UMProperties** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **OofStatus** | **s:boolean** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies whether the Out of Office (OOF) greeting is enabled. A text value of "true" specifies that the OOF greeting is enabled. This element MUST be present.  |
| **MissedCallNotificationEnabled** | **s:boolean**  | Specifies whether missed call notifications are enabled. A text value of "true" specifies that missed call notifications are enabled. This element MUST be present.  |
| **PlayOnPhoneDialString** | **s:string**  | Specifies the default telephone number to use for the **PlayOnPhone** and **PlayOnPhoneGreeting** operations (sections [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c) and [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5)). This element MUST be present.  |
| **TelephoneAccessNumbers** | **s:string**  | Specifies a comma-separated list of telephone numbers that the user can use to access Unified Messaging via a telephone. This element MUST be present if the server has a telephone access number set for the requestor's account. Otherwise, this element MUST NOT be present. |
| **TelephoneAccessFolderEmail** | **s:string**  | Specifies the identifier for the e-mail folder from which Unified Messaging will read messages over the telephone. The text value of this is the folder [**EntryID**](#gt_64df5f51-e2e6-4cf2-a15f-5bc1167087b5) encoded as a base64 string ([[RFC2045]](https://go.microsoft.com/fwlink/?LinkId=90307) section 6.8).This element MUST be present.  |

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### IsUMEnabled Operation

The **IsUMEnabled** operation returns a value that indicates whether the user who is making the request is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357). The **IsUMEnabled** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="IsUMEnabled">
2. <wsdl:input message="tns:IsUMEnabledSoapIn" />
3. <wsdl:output message="tns:IsUMEnabledSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="IsUMEnabled">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/IsUMEnabled" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, an **IsUMEnabledResponse** element is returned. If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault is returned if the **IsUMEnabledSoapIn** request message [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).[<12>](#Appendix_A_12" \o "Product behavior note 12)

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **IsUMEnabledSoapIn**  | Specifies the request to get information about whether the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) feature is enabled for a user. |
| **IsUMEnabledSoapOut**  | Specifies the response to a request to get information about whether the Unified Messaging feature is enabled for a user. |

###### IsUMEnabledSoapIn Message

The **IsUMEnabledSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **IsUMEnabled** operation request.

1. <wsdl:message name="IsUMEnabledSoapIn">
2. <wsdl:part name="parameters" element="tns:IsUMEnabled" />
3. </wsdl:message>

The **IsUMEnabledSoapIn** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/IsUMEnabled.

The SOAP body contains a **IsUMEnabled** element.

The parts of the **IsUMEnabledSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **IsUMEnabled** (section [3.1.4.6.2.1](#Section_4a215523b0614b4e852d92c79ac7d4ee)) | Specifies the information that is required to discover whether a [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357).  |

###### IsUMEnabledSoapOut Message

The **IsUMEnabledSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **IsUMEnabled** operation response.

1. <wsdl:message name="IsUMEnabledSoapOut">
2. <wsdl:part name="parameters" element="tns:IsUMEnabledResponse" />
3. </wsdl:message>

The SOAP body contains an **IsUMEnabledResponse** element.

The parts of the **IsUMEnabledSoapOut** message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **IsUMEnabledResponse** (section [3.1.4.6.2.2](#Section_5d5ac390b54f40118214064fb2b69879)) | Specifies a response to an **IsUMEnabled** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **IsUMEnabled**  | Specifies a request to get information about whether a [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357). |
| **IsUMEnabledResponse**  | Specifies a response to an **IsUMEnabled** operation request. |

###### m:IsUMEnabled Element

The **IsUMEnabled** element specifies a request to get information about whether a [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357). This element MUST be present.

1. <xs:element name="IsUMEnabled">
2. <xs:complexType />
3. </xs:element>

###### m:IsUMEnabledResponse Element

The **IsUMEnabledResponse** element specifies a response to an **IsUMEnabled** operation request. This element MUST be present in response to a successful request.

1. <xs:element name="IsUMEnabledResponse">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="IsUMEnabledResponse"
5. type="s:boolean"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **IsUMEnabledResponse** element.

| Element name | Type | Description |
| --- | --- | --- |
| **IsUMEnabledResponse** | s:boolean [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies a value that indicates whether a [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357). This element MUST be present.  |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### PlayOnPhone2 Operation

The **PlayOnPhone2** operation initiates an outbound call and plays a voice message over the telephone. The **PlayOnPhone2** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.[<13>](#Appendix_A_13" \o "Product behavior note 13)

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="PlayOnPhone2">
2. <wsdl:input message="tns:PlayOnPhoneSoapIn2" />
3. <wsdl:output message="tns:PlayOnPhoneSoapOut2" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="PlayOnPhone2">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone"/>
3. <wsdl:input>
4. <soap:body parts="request" use="literal"/>
5. <soap:header message="tns:PlayOnPhoneSoapIn2" part="Impersonation" use="literal"/>
6. <soap:header message="tns:PlayOnPhoneSoapIn2" part="MailboxCulture" use="literal"/>
7. <soap:header message="tns:PlayOnPhoneSoapIn2" part="RequestVersion" use="literal"/>
8. </wsdl:input>
9. <wsdl:output>
10. <soap:body parts="PlayOnPhoneResult" use="literal"/>
11. <soap:header message="tns:PlayOnPhoneSoapOut2" part="ServerVersion" use="literal"/>
12. </wsdl:output>
13. </wsdl:operation>

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **PlayOnPhoneSoapIn2**  | Specifies the request that initiates the playing of an item or voice mail on a phone call. |
| **PlayOnPhoneSoapOut2**  | Specifies the response to a request to initiate the playing of an item or voice mail on a phone call. |

###### PlayOnPhoneSoapIn2

The **PlayOnPhoneSoapIn2** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **PlayOnPhone2** operation request.

1. <wsdl:message name="PlayOnPhoneSoapIn2">
2. <wsdl:part name="request" type="tns:PlayOnPhone2Type"/>
3. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
4. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
5. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
6. </wsdl:message>

The **PlayOnPhoneSoapIn2** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone.

The parts of the **PlayOnPhoneSoapIn2** message are listed in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **request** | **tns:PlayOnPhone2Type** (section [3.1.4.7.2.2](#Section_41af7cce6dfd46d2b7207274b8af730d)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the request.  |
| **Impersonation** | **t:ExchangeImpersonation** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.3) | Specifies a [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the user whom the client application is impersonating.  |
| **MailboxCulture** | **t:MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6) | Specifies a SOAP header that identifies the language to use for accessing the mailbox. The languages are specified in [[RFC3066]](https://go.microsoft.com/fwlink/?LinkId=90404). |
| **RequestVersion** | **t:RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9) | Specifies a SOAP header that identifies the target schema version for the **PlayOnPhone2** operation request.  |

###### PlayOnPhoneSoapOut2

The **PlayOnPhoneSoapOut2** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **PlayOnPhone2** operation response.

1. <wsdl:message name="PlayOnPhoneSoapOut2">
2. <wsdl:part name="PlayOnPhoneResult" type="tns:PlayOnPhoneResponse2Type"/>
3. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
4. </wsdl:message>

The **PlayOnPhoneSoapOut2** WSDL message is the output message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone.

The parts of the **PlayOnPhoneSoapOut2** message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **PlayOnPhoneResult** | **tns:PlayOnPhoneResponse2Type** (section [3.1.4.7.2.3](#Section_8e151d3ed234436e8242ae0a9c20503f)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) of the response. |
| **ServerVersion** | **t:ServerVersionInfo** ([[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.3.10) | Specifies the [**SOAP header**](#gt_093a0af2-e71c-40fc-a484-d2f802da0277) that identifies the server version for the response. |

A successful **PlayOnPhone2** operation response MUST have a text value of "Success" for the **ResponseClass** attribute of the **PlayOnPhoneResponse** [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) instance element (section 3.1.4.7.2.3). The **ResponseCode** child element of the **PlayOnPhoneResponse** XML instance element MUST have a text value of "NoError". Additionally, a successful **PlayOnPhone2** operation response MUST have a valid phone call identifier returned in the **PhoneCallId** element, as specified in section [3.1.4.7.2.4](#Section_d446f80b8b574afd9ccc8cf1bb6e8c3b).

An error **PlayOnPhone2** operation response caused by an invalid item identifier, as specified by the **ItemId** element in section [3.1.4.7.2.1](#Section_288acf1a8a674bfcaf42044946382ad4), MUST have a text value of "Error" for the **ResponseClass** attribute of the **PlayOnPhoneResponse** XML instance element (section 3.1.4.7.2.3). The **ResponseCode** child element of the **PlayOnPhoneResponse** XML instance element MUST have a text value of "ErrorInvalidIdMalformed". The **MessageText** child element of the **PlayOnPhoneResponse** XML instance element MUST have a text value of "Id is malformed". The response SOAP body XML MUST match the following XML.

1. <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <PlayOnPhoneResponse ResponseClass="Error" xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
3. <MessageText>Id is malformed.</MessageText>
4. <ResponseCode>ErrorInvalidIdMalformed</ResponseCode>
5. <DescriptiveLinkKey>0</DescriptiveLinkKey>
6. </PlayOnPhoneResponse>
7. </s:Body>

An error **PlayOnPhone2** operation response caused by a dial string that does not represent a valid phone number, as specified by the **DialString** element in section 3.1.4.7.2.1, MUST have a text value of "Error" for the **ResponseClass** attribute of the **PlayOnPhoneResponse** XML instance element (section 3.1.4.7.2.3). The **ResponseCode** child element of the **PlayOnPhoneResponse** XML instance element MUST have a text value of "ErrorPhoneNumberNotDialable". The **MessageText** child element of the **PlayOnPhoneResponse** XML instance element MUST have a text value of "Dialing restrictions are preventing the phone number that was entered from being dialed." The response SOAP body XML MUST match the following XML.

1. <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
2. <PlayOnPhoneResponse ResponseClass="Error" xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
3. <MessageText>Dialing restrictions are preventing the phone number that was entered from being dialed.</MessageText>
4. <ResponseCode>ErrorPhoneNumberNotDialable</ResponseCode>
5. <DescriptiveLinkKey>0</DescriptiveLinkKey>
6. </PlayOnPhoneResponse>
7. </s:Body>

##### Complex Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type name | Description |
| --- | --- |
| **PlayOnPhoneType**  | Specifies the request to play a voice mail or [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) item over the telephone. |
| **PlayOnPhone2Type**  | Specifies the request to play a voice mail or mailbox item over the telephone. |
| **PlayOnPhoneResponse2Type**  | Specifies the response to a request to play a voice mail or mailbox item over the telephone. |
| **PlayOnPhoneResponseMessageType**  | Specifies the response to a request to play a voice mail or mailbox item over the telephone. |

###### m:PlayOnPhoneType Complex Type

The **PlayOnPhoneType** complex type specifies the request to play a voice mail or [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) item over the telephone. The **PlayOnPhoneType** complex type extends the **BaseRequestType** complex type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.17.

1. <xs:complexType name="PlayOnPhoneType">
2. <xs:complexContent>
3. <xs:extension
4. base="m:BaseRequestType"
5. >
6. <xs:sequence>
7. <xs:element name="ItemId"
8. type="t:ItemIdType"
9. maxOccurs="1"
10. minOccurs="1"
11. />
12. <xs:element name="DialString"
13. type="xs:string"
14. maxOccurs="1"
15. minOccurs="1"
16. />
17. </xs:sequence>
18. </xs:extension>
19. </xs:complexContent>
20. </xs:complexType>

The following table lists the child elements of the **PlayOnPhoneType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **ItemId** | **t:ItemIdType** ([[MS-OXWSCORE]](%5BMS-OXWSCORE%5D.pdf#Section_7a113138a0db4168a164bf8b05cc4e6d) section 2.2.4.25) | Specifies the voice mail or item identifier of the voice mail or item to play on the telephone number identified by the **DialString** element. This element MUST be present.  |
| **DialString** | **xs:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the dial string of the telephone, as defined in [[RFC3966]](https://go.microsoft.com/fwlink/?LinkId=114246), that plays the voice mail or mailbox item as identified by the **ItemId** element. This element MUST be present.  |

###### m:PlayOnPhone2Type Complex Type

The **PlayOnPhone2Type** complex type specifies the request to play a voice mail or [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) item over the telephone.

1. <xs:complexType name="PlayOnPhone2Type">
2. <xs:sequence>
3. <xs:element name="PlayOnPhone"
4. type="m:PlayOnPhoneType"
5. />
6. </xs:sequence>
7. </xs:complexType>

The following table lists the child elements of the **PlayOnPhone2Type** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PlayOnPhone** | **m:PlayOnPhone** (section [3.1.4.7.2.1](#Section_288acf1a8a674bfcaf42044946382ad4)) | Specifies the request to play a voice mail or mailbox item over the telephone. This element MUST be present.  |

###### m:PlayOnPhoneResponse2Type Complex Type

The **PlayOnPhoneResponse2Type** complex type specifies the response to a request to play a voice mail or item over the telephone.

1. <xs:complexType name="PlayOnPhoneResponse2Type">
2. <xs:sequence>
3. <xs:element name="PlayOnPhoneResponse"
4. type="m:PlayOnPhoneResponseMessageType"
5. />
6. </xs:sequence>
7. </xs:complexType>

The following table lists the child elements of the **PlayOnPhoneResponse2Type** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PlayOnPhoneResponse** | **m:PlayOnPhoneResponseMessageType** (section [3.1.4.7.2.4](#Section_d446f80b8b574afd9ccc8cf1bb6e8c3b)) | Specifies the response to play a voice mail or item over the telephone. This element MUST be present. |

###### m:PlayOnPhoneResponseMessageType Complex Type

The **PlayOnPhoneResponseMessageType** complex type specifies the response to a request to play a voice mail or [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) item over the telephone. The **PlayOnPhoneResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.67.

1. <xs:complexType name="PlayOnPhoneResponseMessageType">
2. <xs:complexContent>
3. <xs:extension
4. base="m:ResponseMessageType"
5. >
6. <xs:sequence>
7. <xs:element name="PhoneCallId"
8. type="t:PhoneCallIdType"
9. maxOccurs="1"
10. minOccurs="0"
11. />
12. </xs:sequence>
13. </xs:extension>
14. </xs:complexContent>
15. </xs:complexType>

The following table lists the child elements of the **PlayOnPhoneResponseMessageType** complex type.

| Element name | Type | Description |
| --- | --- | --- |
| **PhoneCallId** | **t:PhoneCallIdType** (section [2.2.4.1](#Section_8703ce85d2bf45ffa550b4b701068796)) | Specifies the telephone call identifier. This element MUST be present if the request is successful. This element MUST NOT be present if the request is unsuccessful.  |

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### PlayOnPhone Operation

The **PlayOnPhone** operation initiates an outbound call and plays a voice message or item over the telephone. The **PlayOnPhone** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="PlayOnPhone">
2. <wsdl:input message="tns:PlayOnPhoneSoapIn" />
3. <wsdl:output message="tns:PlayOnPhoneSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="PlayOnPhone">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **PlayOnPhoneResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure.

A SOAP fault is returned if the **PlayOnPhone** operation specifies an invalid item identifier in the **entryId** element, as specified in section [3.1.4.8.2.1](#Section_78cf07a15dc4472aa7952ef4da900de8). The following [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) specifies the SOAP fault response that SHOULD[<14>](#Appendix_A_14" \o "Product behavior note 14) be returned if an invalid item identifier is provided as an argument to a **PlayOnPhone** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/errors">a:InvalidObjectIdException</faultcode>
6. <faultstring xml:lang="en-US">The object identifier isn't valid.</faultstring>
7. <detail>
8. <m:ExceptionType xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">InvalidObjectIdException</m:ExceptionType>
9. </detail>
10. </s:Fault>
11. </s:Body>
12. </s:Envelope>

The **faultcode** element SHOULD[<15>](#Appendix_A_15" \o "Product behavior note 15) contain a text value of "a:InvalidObjectIdException" if an invalid item identifier is sent in the request.

The **faultstring** element SHOULD[<16>](#Appendix_A_16" \o "Product behavior note 16) contain a text value of "The object identifier isn't valid" if an invalid item identifier is sent in the request.

The contents of the SOAP fault **detail** element are specified by the **ExceptionType** element (section [2.2.3.1](#Section_2b75339603134b719c3b318482a3cb9d)).

A SOAP fault MUST be returned if the **PlayOnPhone** operation specifies an invalid dial string in the **DialString** element, as specified in section 3.1.4.8.2.1. The following XML specifies the SOAP fault response that SHOULD[<17>](#Appendix_A_17" \o "Product behavior note 17) be returned if an invalid **DialString** element is provided as an argument to a **PlayOnPhone** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/errors">a:DialingRulesException</faultcode>
6. <faultstring xml:lang="en-US">Dialing restrictions are preventing the phone number that was entered from being dialed.</faultstring>
7. <detail>
8. <m:ExceptionType xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">DialingRulesException</m:ExceptionType>
9. </detail>
10. </s:Fault>
11. </s:Body>
12. </s:Envelope>

The **faultcode** element SHOULD[<18>](#Appendix_A_18" \o "Product behavior note 18) contain a text value of "a:DialingRulesException" if an invalid dial string is sent in the request.

The **faultstring** element SHOULD[<19>](#Appendix_A_19" \o "Product behavior note 19) contain a text value of "Dialing restrictions are preventing the phone number that was entered from being dialed" if an invalid dial string is sent in the request.

The contents of the SOAP fault **detail** element are specified by the **ExceptionType** element.

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **PlayOnPhoneSoapIn**  | Specifies the request that initiates the playing of an item or voice mail on a phone call. |
| **PlayOnPhoneSoapOut**  | Specifies the response to a request to initiate the playing of an item or voice mail on a phone call. |

###### PlayOnPhoneSoapIn Message

The **PlayOnPhoneSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **PlayOnPhone** operation request.

1. <wsdl:message name="PlayOnPhoneSoapIn">
2. <wsdl:part name="parameters" element="tns:PlayOnPhone" />
3. </wsdl:message>

The **PlayOnPhoneSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone.

The SOAP body contains a **PlayOnPhone** element.

The parts of the **PlayOnPhoneSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **PlayOnPhone** (section [3.1.4.8.2.1](#Section_78cf07a15dc4472aa7952ef4da900de8)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) information that is required to play a voice message or item on a telephone. |

###### PlayOnPhoneSoapOut Message

The **PlayOnPhoneSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the response to a request to initiate the playing of an item or voice mail on a phone call.

The SOAP body contains a **PlayOnPhoneResponse** element.

1. <wsdl:message name="PlayOnPhoneSoapOut">
2. <wsdl:part name="parameters" element="tns:PlayOnPhoneResponse" />
3. </wsdl:message>

The parts of the **PlayOnPhoneSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **PlayOnPhoneResponse** (section [3.1.4.8.2.2](#Section_f7f28e974e3b41e284102cb2c9d913ff)) | Specifies a response to a **PlayOnPhone** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **PlayOnPhone**  | Specifies a request to play a voice message or item on a telephone. |
| **PlayOnPhoneResponse**  | Specifies a response to a **PlayOnPhone** operation request. |

###### m:PlayOnPhone Element

The **PlayOnPhone** element specifies a request to play a voice message or item on a telephone. This element MUST be present.

1. <xs:element name="PlayOnPhone">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="entryId"
5. type="s:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. <xs:element name="DialString"
10. type="s:string"
11. maxOccurs="1"
12. minOccurs="1"
13. />
14. </xs:sequence>
15. </xs:complexType>
16. </xs:element>

The following table lists the child elements of the **PlayOnPhone** element.

| Element name | Type | Description |
| --- | --- | --- |
| **entryId** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the identifier of the voice mail or item to play. This element MUST be present. The value of the **entryId** element is encoded as a base64 string (as specified in [[RFC2045]](https://go.microsoft.com/fwlink/?LinkId=90307) section 6.8).  |
| **DialString** | **s:string**  | Specifies the telephone number, as defined in [[RFC3966]](https://go.microsoft.com/fwlink/?LinkId=114246), to dial. This element MUST be present.  |

The EntryID that represents the item identifier that is used in the **entryId** element can be retrieved by using the Mailbox Search Web Service Protocol, as specified in [[MS-OXWSSRCH]](%5BMS-OXWSSRCH%5D.pdf#Section_35f2a6fd080143ddb3a57a0bf60c0127). Specifically, the **FindItem** operation, as specified in [MS-OXWSSRCH] section 3.1.4.2, can return a **StoreEntryId** element, as specified in [[MS-OXWSCORE]](%5BMS-OXWSCORE%5D.pdf#Section_7a113138a0db4168a164bf8b05cc4e6d) section 2.2.4.24, when the **FieldUri** attribute of the **FieldUri** element, as specified in [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 2.2.4.57, of the **AdditionalProperties** element, as specified in [MS-OXWSCDATA] section 2.2.4.44, has the value "item:StoreEntryId" in the request.

###### m:PlayOnPhoneResponse Element

The **PlayOnPhoneResponse** element specifies a response to a **PlayOnPhone** operation request. This element MUST be present if the **PlayOnPhone** operation request is successful.

1. <xs:element name="PlayOnPhoneResponse">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="PlayOnPhoneResponse"
5. type="s:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **PlayOnPhoneResponse** element.

| Element name | Type | Description |
| --- | --- | --- |
| **PlayOnPhoneResponse** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the identifier of the phone call. This element MUST be present. This value MUST be used as the **CallId** element for subsequent **Disconnect** operation (section [3.1.4.1](#Section_16f25ad20b9c4a36b47c392700103f9d)) and **GetCallInfo** operation (section [3.1.4.3](#Section_2dddda8d40114ce2926630e1e0257463)) requests.  |

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### PlayOnPhoneGreeting Operation

The **PlayOnPhoneGreeting** operation initiates an outbound call to play and record a greeting over the telephone. The **PlayOnPhoneGreeting** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification for the operation.

1. <wsdl:operation name="PlayOnPhoneGreeting">
2. <wsdl:input message="tns:PlayOnPhoneGreetingSoapIn" />
3. <wsdl:output message="tns:PlayOnPhoneGreetingSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification for the operation.

1. <wsdl:operation name="PlayOnPhoneGreeting">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhoneGreeting" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **PlayOnPhoneGreetingResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure.

A SOAP fault is returned if the **PlayOnPhoneGreeting** operation specifies an invalid dial string in the **DialString** element. The following [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) specifies the SOAP fault response that SHOULD[<20>](#Appendix_A_20" \o "Product behavior note 20) be returned if an invalid **DialString** element is provided as an argument to a **PlayOnPhoneGreeting** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Body>
4. <s:Fault>
5. <faultcode xmlns:a="http://schemas.microsoft.com/exchange/services/2006/errors">a:DialingRulesException</faultcode>
6. <faultstring xml:lang="en-US">Dialing restrictions are preventing the phone number that was entered from being dialed.</faultstring>
7. <detail>
8. <m:ExceptionType xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">DialingRulesException</m:ExceptionType>
9. </detail>
10. </s:Fault>
11. </s:Body>
12. </s:Envelope>

The **faultcode** element SHOULD[<21>](#Appendix_A_21" \o "Product behavior note 21)contain a text value of "a:DialingRulesException" if an invalid dial string is sent in the request.

The **faultstring** element SHOULD[<22>](#Appendix_A_22" \o "Product behavior note 22) contain a text value of "Dialing restrictions are preventing the phone number that was entered from being dialed." if an invalid dial string is sent in the request.

The contents of the SOAP fault **detail** element are specified by the **ExceptionType** element, as specified in section [2.2.3.1](#Section_2b75339603134b719c3b318482a3cb9d).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **PlayOnPhoneGreetingSoapIn**  | Specifies the request that initiates the playing of a user's voice mail greeting on a phone call. |
| **PlayOnPhoneGreetingSoapOut**  | Specifies the response to a request to initiate the playing of a user's voice mail greeting on a phone call. |

###### PlayOnPhoneGreetingSoapIn Message

The **PlayOnPhoneGreetingSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **PlayOnPhoneGreeting** operation request.

1. <wsdl:message name="PlayOnPhoneGreetingSoapIn">
2. <wsdl:part name="parameters" element="tns:PlayOnPhoneGreeting" />
3. </wsdl:message>

The **PlayOnPhoneGreetingSoapIn** WSDL message is the input message for the [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhoneGreeting.

The parts of the **PlayOnPhoneGreetingSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:PlayOnPhoneGreeting** (section [3.1.4.9.2.1](#Section_b39429452e204eccb3f451a0958a3ba0)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) information required to play a [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) greeting on a telephone.  |

###### PlayOnPhoneGreetingSoapOut Message

The **PlayOnPhoneGreetingSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **PlayOnPhoneGreeting** operation response.

1. <wsdl:message name="PlayOnPhoneGreetingSoapOut">
2. <wsdl:part name="parameters" element="tns:PlayOnPhoneGreetingResponse" />
3. </wsdl:message>

The parts of the **PlayOnPhoneGreetingSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:PlayOnPhoneGreetingResponse** (section [3.1.4.9.2.2](#Section_a2f9fb07adf24a4389d1539d44c7a06d)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) response to a **PlayOnPhoneGreeting** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **PlayOnPhoneGreeting**  | Specifies a request to play a [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) greeting on a telephone. |
| **PlayOnPhoneGreetingResponse**  | Specifies a response to a **PlayOnPhoneGreeting** operation request. |

###### m:PlayOnPhoneGreeting Element

The **PlayOnPhoneGreeting** element specifies a request to play a [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) greeting on a telephone. This element MUST be present.

1. <xs:element name="PlayOnPhoneGreeting">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="GreetingType"
5. type="UMGreetingType"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. <xs:element name="DialString"
10. type="s:string"
11. maxOccurs="1"
12. minOccurs="1"
13. />
14. </xs:sequence>
15. </xs:complexType>
16. </xs:element>

The following table lists the child elements of the **PlayOnPhoneGreeting** element.

| Element name | Type | Description |
| --- | --- | --- |
| **GreetingType** | **m:UMGreetingType** (section [3.1.4.9.3.1](#Section_2c0591317dd34cde8826fc949e57de5f)) | Specifies the type of greeting to play. This element MUST be present.  |
| **DialString** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the telephone number, as defined in [[RFC3966]](https://go.microsoft.com/fwlink/?LinkId=114246), to dial. This element MUST be present.  |

###### m:PlayOnPhoneGreetingResponse Element

The **PlayOnPhoneGreetingResponse** element specifies a response to a **PlayOnPhoneGreeting** operation request. This element MUST be present if the **PlayOnPhoneGreeting** operation request is successful.

1. <xs:element name="PlayOnPhoneGreetingResponse">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="PlayOnPhoneGreetingResponse"
5. type="s:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **PlayOnPhoneGreetingResponse** element.

| Element name | Type | Description |
| --- | --- | --- |
| **PlayOnPhoneGreetingResponse** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the phone call identifier. This element MUST be present. The text value of this element MUST be used as the text value of the **CallId** element for the **Disconnect** operation (section [3.1.4.1](#Section_16f25ad20b9c4a36b47c392700103f9d)) and the **GetCallInfo** operation (section [3.1.4.3](#Section_2dddda8d40114ce2926630e1e0257463)) request.  |

##### Simple Types

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type name | Description |
| --- | --- |
| **UMGreetingType**  | Specifies the greeting to be played. |

###### m:UMGreetingType Simple Type

The **UMGreetingType** simple type specifies the greeting to be played. The text values represented by this type are restricted to a **string** type, as specified in [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) section 3.2.

1. <xs:simpleType name="UMGreetingType">
2. <xs:restriction
3. base="s:string"
4. >
5. <xs:enumeration
6. value="NormalCustom"
7. />
8. <xs:enumeration
9. value="OofCustom"
10. />
11. </xs:restriction>
12. </xs:simpleType>

The following enumeration values are defined by the **UMGreetingType** simple type.

| Value | Meaning |
| --- | --- |
| NormalCustom | Specifies the default greeting to be played to callers when the user is not [**Out of Office (OOF)**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34). |
| OofCustom | Specifies the greeting to be played when the user is OOF. |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### ResetPIN Operation

The **ResetPIN** operation creates a new [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) password for the user who is making the request. A successful request results in the server creating a Unified Messaging password.[<23>](#Appendix_A_23" \o "Product behavior note 23) The **ResetPIN** operation uses the endpoint specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

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

1. <wsdl:operation name="ResetPIN">
2. <wsdl:input message="tns:ResetPINSoapIn" />
3. <wsdl:output message="tns:ResetPINSoapOut" />
4. </wsdl:operation>

The following is the WSDL binding specification of the operation.

1. <wsdl:operation name="ResetPIN">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ResetPIN" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation is successful, a **ResetPINResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **ResetPINSoapIn** message request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **ResetPINSoapIn**  | Specifies the request that initiates an attempt to reset a user's [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) PIN. |
| **ResetPINSoapOut** | Specifies the response to a request to reset a user's Unified Messaging PIN. |

###### ResetPINSoapIn Message

The **ResetPINSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **ResetPIN** operation request.

1. <wsdl:message name="ResetPINSoapIn">
2. <wsdl:part name="parameters" element="tns:ResetPIN" />
3. </wsdl:message>

The **ResetPINSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/ResetPIN.

The parts of the **ResetPINSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:ResetPIN** (section [3.1.4.10.2.1](#Section_a7fff6c507014fcf82a82fc53d557e36)) | Specifies the information that is required to reset a user's [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) password.  |

###### ResetPINSoapOut Message

The **ResetPINSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **ResetPIN** operation response.

1. <wsdl:message name="ResetPINSoapOut">
2. <wsdl:part name="parameters" element="tns:ResetPINResponse" />
3. </wsdl:message>

The parts of the **ResetPINSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:ResetPINResponse** (section [3.1.4.10.2.2](#Section_677f642af65e41a4813f55e33dafc2da)) | Specifies a response to a **ResetPIN** operation request.  |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **ResetPIN**  | Specifies a request to reset a user's [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) password. |
| **ResetPINResponse**  | Specifies a response to a **ResetPIN** operation request. |

###### m:ResetPIN Element

The **ResetPIN** element specifies a request to reset a user's [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) password. This element MUST be present.

1. <xs:element name="ResetPIN">
2. <xs:complexType />
3. </xs:element>

###### m:ResetPINResponse Element

The **ResetPINResponse** element specifies a response to a **ResetPIN** operation request. This element MUST be present.

1. <xs:element name="ResetPINResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetMissedCallNotificationEnabled Operation

The **SetMissedCallNotificationEnabled** operation sets a value that indicates whether missed call notifications are enabled for the user who is making the request. The **SetMissedCallNotificationEnabled** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification of the operation.

1. <wsdl:operation name="SetMissedCallNotificationEnabled">
2. <wsdl:input message="tns:SetMissedCallNotificationEnabledSoapIn" />
3. <wsdl:output message="tns:SetMissedCallNotificationEnabledSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification of the operation.

1. <wsdl:operation name="SetMissedCallNotificationEnabled">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetMissedCallNotificationEnabled" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **SetMissedCallNotificationEnabledResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **SetMissedCallNotificationEnabledSoapIn** request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **SetMissedCallNotificationEnabledSoapIn**  | Specifies the request that initiates an attempt to change a setting that allows missed call notifications to be sent. |
| **SetMissedCallNotificationEnabledSoapOut**  | Specifies the response to a request to initiate a change to a setting that allows missed call notifications to be sent. |

###### SetMissedCallNotificationEnabledSoapIn Message

The **SetMissedCallNotificationEnabledSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetMissedCallNotificationEnabled** operation request.

1. <wsdl:message name="SetMissedCallNotificationEnabledSoapIn">
2. <wsdl:part name="parameters" element="tns:SetMissedCallNotificationEnabled" />
3. </wsdl:message>

The **SetMissedCallNotificationEnabledSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/SetMissedCallNotificationEnabled.

The parts of the **SetMissedCallNotificationEnabledSoapIn** WSDL message are listed in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetMissedCallNotificationEnabled** (section [3.1.4.11.2.1](#Section_a5032e558c534f919675c1e60c3de8a1)) | Specifies the [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) information that is required to set whether missed call notifications are enabled for the user who is making the request.  |

###### SetMissedCallNotificationEnabledSoapOut Message

The **SetMissedCallNotificationEnabledSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetMissedCallNotificationEnabled** operation response.

1. <wsdl:message name="SetMissedCallNotificationEnabledSoapOut">
2. <wsdl:part name="parameters" element="tns:SetMissedCallNotificationEnabledResponse" />
3. </wsdl:message>

The parts of the **SetMissedCallNotificationEnabledSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetMissedCallNotificationEnabledResponse** (section [3.1.4.11.2.2](#Section_9231bdf2df9d4f1d97f6a9d8a80e1050)) | Specifies a response to a **SetMissedCallNotificationEnabled** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **SetMissedCallNotificationEnabled**  | Specifies the contents of a request to set whether missed call notifications are enabled for the user who is making the request. |
| **SetMissedCallNotificationEnabledResponse**  | Specifies a response to a successful **SetMissedCallNotificationEnabled** operation request. |

###### m:SetMissedCallNotificationEnabled Element

The **SetMissedCallNotificationEnabled** element specifies the contents of a request to set whether missed call notifications are enabled for the user who is making the request. This element MUST be present.

1. <xs:element name="SetMissedCallNotificationEnabled">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="status"
5. type="s:boolean"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **SetMissedCallNotificationEnabled** element.

| Element name | Type | Description |
| --- | --- | --- |
| **status** | **s:boolean** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies a value that indicates whether to enable or disable missed call notifications for the user who is making the request. This element MUST be present. |

###### m:SetMissedCallNotificationEnabledResponse Element

The **SetMissedCallNotificationEnabledResponse** element specifies a response to a successful **SetMissedCallNotificationEnabled** operation request. This element MUST be present if the **SetMissedCallNotificationEnabled** operation request is successful.

1. <xs:element name="SetMissedCallNotificationEnabledResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetOofStatus Operation

The **SetOofStatus** operation sets a value that indicates whether the [**Out of Office (OOF)**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is played to callers who reach the user's voice mail. The **SetOofStatus** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification of the operation.

1. <wsdl:operation name="SetOofStatus">
2. <wsdl:input message="tns:SetOofStatusSoapIn" />
3. <wsdl:output message="tns:SetOofStatusSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification of the operation.

1. <wsdl:operation name="SetOofStatus">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetOofStatus" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **SetOofStatusResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **SetOofStatusSoapIn** request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **SetOofStatusSoapIn**  | Specifies the request that sets the [**Out of Office (OOF)**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) status for the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) feature. |
| **SetOofStatusSoapOut**  | Specifies the response to a request to set the OOF status. |

###### SetOofStatusSoapIn Message

The **SetOofStatusSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetOofStatus** operation request.

1. <wsdl:message name="SetOofStatusSoapIn">
2. <wsdl:part name="parameters" element="tns:SetOofStatus" />
3. </wsdl:message>

The **SetOofStatusSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/SetOofStatus.

The parts of the **SetOofStatusSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **Parameters** | **tns:SetOofStatus** (section [3.1.4.12.2.1](#Section_1a6e5453eeb74fbe9df2d0ae4994429e)) | Specifies the information that is required to set whether the [**OOF**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is enabled for the user who is making the request.  |

###### SetOofStatusSoapOut Message

The **SetOofStatusSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetOofStatus** operation response.

1. <wsdl:message name="SetOofStatusSoapOut">
2. <wsdl:part name="parameters" element="tns:SetOofStatusResponse" />
3. </wsdl:message>

The parts of the **SetOofStatusSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetOofStatusResponse** (section [3.1.4.12.2.2](#Section_16d0b930e5ee4579b34fe91615b084b6)) | Specifies a response to a **SetOofStatus** operation request. |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **SetOofStatus**  | Specifies the contents of a request to set whether the [**OOF**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is enabled for the user who is making the request. |
| **SetOofStatusResponse**  | Specifies a response to a **SetOofStatus** operation request. |

###### m:SetOofStatus Element

The **SetOofStatus** element specifies the contents of a request to set whether the [**OOF**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is enabled for the user who is making the request. This element MUST be present.

1. <xs:element name="SetOofStatus">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="status"
5. type="s:boolean"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **SetOofStatus** element.

| Element name | Type | Description |
| --- | --- | --- |
| **status** | **s:boolean** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies a value that indicates whether the OOF greeting is played to callers. A text value of "true" indicates that the OOF greeting is played to callers. This element MUST be present.  |

###### m:SetOofStatusResponse Element

The **SetOofStatusResponse** element specifies a response to a **SetOofStatus** operation request. This element MUST be present in a response to a successful **SetOofStatus** operation request.

1. <xs:element name="SetOofStatusResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetPlayOnPhoneDialString Operation

The **SetPlayOnPhoneDialString** operation sets the default telephone number that is used in the **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), and in the **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5). The **SetPlayOnPhoneDialString** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification of the operation.

1. <wsdl:operation name="SetPlayOnPhoneDialString">
2. <wsdl:input message="tns:SetPlayOnPhoneDialStringSoapIn" />
3. <wsdl:output message="tns:SetPlayOnPhoneDialStringSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification of the operation.

1. <wsdl:operation name="SetPlayOnPhoneDialString">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetPlayOnPhoneDialString" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **SetPlayOnPhoneDialStringResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **SetPlayOnPhoneDialStringSoapIn** request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified in section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **SetPlayOnPhoneDialStringSoapIn**  | Specifies the request that attempts to set the play on phone dial string.  |
| **SetPlayOnPhoneDialStringSoapOut**  | Specifies the response to a request to set the play on phone dial string. |

###### SetPlayOnPhoneDialStringSoapIn Message

The **SetPlayOnPhoneDialStringSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetPlayOnPhoneDialString** operation request.

1. <wsdl:message name="SetPlayOnPhoneDialStringSoapIn">
2. <wsdl:part name="parameters" element="tns:SetPlayOnPhoneDialString"/>
3. </wsdl:message>

The **SetPlayOnPhoneDialStringSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/SetPlayOnPhoneDialString. The parts of the **SetPlayOnPhoneDialStringSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns: SetPlayOnPhoneDialString** (section [3.1.4.13.2.1](#Section_e2c87e6660e3407db28d9e3fb5cb24cc)) | Specifies the information required to set the default telephone number to use in **PlayOnPhone** and **PlayOnPhoneGreeting** operation requests.  |

###### SetPlayOnPhoneDialStringSoapOut Message

The **SetPlayOnPhoneDialStringSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetPlayOnPhoneDialString** operation response.

1. <wsdl:message name="SetPlayOnPhoneDialStringSoapOut">
2. <wsdl:part name="parameters" element="tns:SetPlayOnPhoneDialStringResponse" />
3. </wsdl:message>

The parts of the **SetPlayOnPhoneDialStringSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetPlayOnPhoneDialStringResponse** (section [3.1.4.13.2.2](#Section_47b8c16b4877436291b36eaaeede5cea)) | Specifies a response to a **SetPlayOnPhoneDialString** operation request.  |

##### Elements

The following table lists [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **SetPlayOnPhoneDialString**  | Specifies a request to store the default telephone number to use in **PlayOnPhone** and **PlayOnPhoneGreeting** operations. |
| **SetPlayOnPhoneDialStringResponse**  | Specifies a response to a **SetPlayOnPhoneDialString** operation request. |

###### m:SetPlayOnPhoneDialString Element

The **SetPlayOnPhoneDialString** element specifies a request to store the default telephone number to use in **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), and **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5), requests. This element MUST be present.

1. <xs:element name="SetPlayOnPhoneDialString">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="dialString"
5. type="s:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **SetPlayOnPhoneDialString** element.

| Element name | Type | Description |
| --- | --- | --- |
| **dialString** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies a telephone number, as defined in [[RFC3966]](https://go.microsoft.com/fwlink/?LinkId=114246), that is used to set the default telephone number to use for **PlayOnPhone** and **PlayOnPhoneGreeting** operations. This element MUST be present.  |

###### m:SetPlayOnPhoneDialStringResponse Element

The **SetPlayOnPhoneDialStringResponse** element specifies a response to a **SetPlayOnPhoneDialString** operation request. This element MUST be present.

1. <xs:element name="SetPlayOnPhoneDialStringResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SetTelephoneAccessFolderEmail Operation

The **SetTelephoneAccessFolderEmail** operation sets the mailbox folder from which the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) server provides access to the user over the telephone. The **SetTelephoneAccessFolderEmail** operation uses the [**endpoint**](#gt_b91c1e27-e8e0-499b-8c65-738006af72ee) specified in [[MS-OXDSCLI]](%5BMS-OXDSCLI%5D.pdf#Section_78530279d0424eb0a1f403b18143cd19) section 2.2.4.1.1.2.6.47.

The following is the [**WSDL port type**](#gt_61056d88-e7ee-4cea-8dcd-80a9ef5db083) specification of the operation.

1. <wsdl:operation name="SetTelephoneAccessFolderEmail">
2. <wsdl:input message="tns:SetTelephoneAccessFolderEmailSoapIn" />
3. <wsdl:output message="tns:SetTelephoneAccessFolderEmailSoapOut" />
4. </wsdl:operation>

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) binding specification of the operation.

1. <wsdl:operation name="SetTelephoneAccessFolderEmail">
2. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetTelephoneAccessFolderEmail" style="document"/>
3. <wsdl:input>
4. <soap:body use="literal"/>
5. </wsdl:input>
6. <wsdl:output>
7. <soap:body use="literal"/>
8. </wsdl:output>
9. </wsdl:operation>

If the operation succeeds, a **SetTelephoneAccessFolderEmailResponse** element is returned.

If the operation fails, a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f) response, as specified in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), is returned that contains information about the failure. A SOAP fault MUST be returned if the **SetTelephoneAccessFolderEmailSoapIn** request [**XML**](#gt_982b7f8e-d516-4fd5-8d5e-1a836081ed85) is malformed. The structure of a SOAP fault for a malformed request is specified section [2.2.2.1](#Section_a9e1fd8d5f874caf84f6a99031d4bd56).

##### Messages

The following table lists the [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message name | Description |
| --- | --- |
| **SetTelephoneAccessFolderEmailSoapIn**  | Specifies the request that sets the telephone access folder. |
| **SetTelephoneAccessFolderEmailSoapOut**  | Specifies the response to a request that sets the telephone access folder. |

###### SetTelephoneAccessFolderEmailSoapIn Message

The **SetTelephoneAccessFolderEmailSoapIn** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetTelephoneAccessFolderEmail** operation request.

1. <wsdl:message name="SetTelephoneAccessFolderEmailSoapIn">
2. <wsdl:part name="parameters" element="tns:SetTelephoneAccessFolderEmail" />
3. </wsdl:message>

The **SetTelephoneAccessFolderEmailSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/SetTelephoneAccessFolderEmail. The parts of the **SetTelephoneAccessFolderEmailSoapIn** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetTelephoneAccessFolderEmail** (section [3.1.4.14.2.1](#Section_c39e133183604b70bc50eb9cde76bb8f)) | Specifies the information that is required to set the folder that the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) server will use to play e-mail messages over the telephone.  |

###### SetTelephoneAccessFolderEmailSoapOut Message

The **SetTelephoneAccessFolderEmailSoapOut** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) specifies the **SetTelephoneAccessFolderEmail** operation response.

1. <wsdl:message name="SetTelephoneAccessFolderEmailSoapOut">
2. <wsdl:part name="parameters" element="tns:SetTelephoneAccessFolderEmailResponse" />
3. </wsdl:message>

The parts of the **SetTelephoneAccessFolderEmailSoapOut** WSDL message are described in the following table.

| Part name | Element/type | Description |
| --- | --- | --- |
| **parameters** | **tns:SetTelephoneAccessFolderEmailResponse** (section [3.1.4.14.2.2](#Section_6184febc278141cc8303df86a1d80dc4)) | Specifies a response to a **SetTelephoneAccessFolderEmail** operation request.  |

##### Elements

The following table lists the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element name | Description |
| --- | --- |
| **SetTelephoneAccessFolderEmail**  | Specifies a request to set the folder that the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) server will use to play items over the telephone. |
| **SetTelephoneAccessFolderEmailResponse**  | Specifies a response to a **SetTelephoneAccessFolderEmail** operation request. |

###### m:SetTelephoneAccessFolderEmail Element

The **SetTelephoneAccessFolderEmail** element specifies a request to set the folder that the [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) server will use to play items over the telephone. This element MUST be present.

1. <xs:element name="SetTelephoneAccessFolderEmail">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element name="base64FolderId"
5. type="s:string"
6. maxOccurs="1"
7. minOccurs="1"
8. />
9. </xs:sequence>
10. </xs:complexType>
11. </xs:element>

The following table lists the child elements of the **SetTelephoneAccessFolderEmail** element.

| Element name | Type | Description |
| --- | --- | --- |
| **base64FolderId** | **s:string** [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610) | Specifies the folder identifier of the target folder that will have items played over the phone. The folder identifier is an EntryID that is encoded as a base64 string, as specified in [[RFC2045]](https://go.microsoft.com/fwlink/?LinkId=90307) section 6.8. This element MUST be present.  |

The EntryID that represents the folder identifier that is used in the **base64FolderId** element can be retrieved by using the Mailbox Search Web Service Protocol, as specified in [[MS-OXWSSRCH]](%5BMS-OXWSSRCH%5D.pdf#Section_35f2a6fd080143ddb3a57a0bf60c0127), and the Convert Item Identifier Web Service Protocol, as specified in [[MS-OXWSCVTID]](%5BMS-OXWSCVTID%5D.pdf#Section_7e7465ed30bd416792c41f1a82d90224). Specifically, the **FindFolder** operation, as specified in [MS-OXWSSRCH] section 3.1.4.1, can return a folder identifier that can then be converted into an EntryID by using the **ConvertId** operation, as specified in [MS-OXWSCVTID] section 3.1.4.1.

###### m:SetTelephoneAccessFolderEmailResponse Element

The **SetTelephoneAccessFolderEmailResponse** element specifies a response to a **SetTelephoneAccessFolderEmail** operation request. This element MUST be present in response to a successful request.

1. <xs:element name="SetTelephoneAccessFolderEmailResponse">
2. <xs:complexType />
3. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

The **Call\_timeout** timer, as specified in section [3.1.2](#Section_27298bc1b1be44748f6e9b9c63fe7db1), causes the state machine to go from the **Disconnected** state to **Idle** state after the timer has expired. For details about the state model, see section [3.1.1.1](#Section_1818d3554abd478a9768974839598049).

### Other Local Events

None.

## UMWebServiceSoap Client Details

The client side of this protocol includes no operations. For details about the server-side operations, see section [3.1](#Section_110e4cad4f174dc88ecd40a47863854b).

### Abstract Data Model

All state information is maintained by the server side of this protocol, as specified in section [3.1.1](#Section_9d99cf07443e4a5a85f7b5ce137f211f).

### Timers

None.

### Initialization

The client requests for the **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), **PlayOnPhone2** operation, as specified in section [3.1.4.7](#Section_6e803ff561b24e3eb0af2689f8c65bae), and **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5), pass arguments that initialize the server state machine, as specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049). Specifically, the required item identifiers and dial strings MUST be sent to the server so that it can initialize a phone call and the server state machine. The **PlayOnPhone** operation MUST send the item identifier in the **entryId** element and the phone number in the **DialString** element, as specified in section [3.1.4.8.2.1](#Section_78cf07a15dc4472aa7952ef4da900de8), which is used by the server to initialize the server state machine. The **PlayOnPhone2** operation MUST send the item identifier in the **ItemId** element and the phone number in the **DialString** element, as specified in section [3.1.4.7.2.1](#Section_288acf1a8a674bfcaf42044946382ad4), which is used by the server to initialize the server state machine. The **PlayOnPhoneGreeting** operation MUST send the greeting type in the **GreetingType** element and the phone number in the **DialString** element, as specified in section [3.1.4.9.2.1](#Section_b39429452e204eccb3f451a0958a3ba0), which is used by the server to initialize the server state machine.

### Message Processing Events and Sequencing Rules

Three client protocol interaction sequences, which use context handles and a specific order of operations, are required for the stateful parts of this protocol to operate. Although the client does not maintain state, requests that are sent by the client are used by the server to initiate state that is maintained on the server, as specified in section [3.1.1.1](#Section_1818d3554abd478a9768974839598049). Actions by the clients can also affect and get server state.

The **PlayOnPhone** operation, as specified in section [3.1.4.8](#Section_dba0cfc4ef78454cba1a5262783b9f1c), initiates the playing of an item or voice mail on a phone by providing the item identifier contained in the **entryId** element, as specified in section [3.1.4.8.2.1](#Section_78cf07a15dc4472aa7952ef4da900de8), and target phone number contained in the **DialString** element, as specified in section 3.1.4.8.2.1, arguments in the request. The **PlayOnPhone** operation response contains a phone call context handle that MUST be used by subsequent requests made by the **GetCallInfo** operation, as specified in section [3.1.4.3](#Section_2dddda8d40114ce2926630e1e0257463), and the **Disconnect** operation, as specified in section [3.1.4.1](#Section_16f25ad20b9c4a36b47c392700103f9d). The phone call context handle that is returned by the **PlayOnPhone** operation is specified by the text value of the **PlayOnPhoneResponse** child element of the **PlayOnPhoneResponse** element, as specified in section [3.1.4.8.2.2](#Section_f7f28e974e3b41e284102cb2c9d913ff).

The **GetCallInfo** operation MUST use the phone call context handle provided by the **PlayOnPhoneResponse** element of the **PlayOnPhone** operation. The **GetCallInfo** operation can then be used to create a request to get the target phone call's status.

The **Disconnect** operation MUST use the phone call context handle provided by **PlayOnPhoneResponse** element of the **PlayOnPhone** operation. The **Disconnect** operation can then be used to create a request to disconnect the target phone call.

The **PlayOnPhone2** operation, as specified in section [3.1.4.7](#Section_6e803ff561b24e3eb0af2689f8c65bae), initiates playing an item or voice mail on a phone by providing the item identifier contained in the **ItemId** element, as specified in section [3.1.4.7.2.1](#Section_288acf1a8a674bfcaf42044946382ad4), and target phone number contained in the **DialString** element, as specified in section 3.1.4.7.2.1. The **PlayOnPhone2** operation response contains a phone call context handle that MUST be used by subsequent requests made by the **GetPhoneCallInformation** operation, as specified in section [3.1.4.4](#Section_844e8bfa91ea4ffea5d040f77198abc1), and the **DisconnectPhoneCall** operation, as specified in section [3.1.4.2](#Section_f5f7ff3cf0e34d4b982c5e02f2aeb3fd). The phone call context handle that is returned by the **PlayOnPhone2** operation is specified by the **Id** attribute value of the **PhoneCallId** element, as specified in section [3.1.4.7.2.4](#Section_d446f80b8b574afd9ccc8cf1bb6e8c3b).

The **GetPhoneCallInformation** operation MUST use the phone call context handle provided by the **Id** attribute value of the **PhoneCallId** element of the **PlayOnPhone2** operation. The **GetPhoneCallInformation** operation can then be used to create a request to get the target phone call's status.

The **DisconnectPhoneCall** operation MUST use the phone call context handle provided by the **Id** attribute value of the **PhoneCallId** element of the **PlayOnPhone2** operation. The **DisconnectPhoneCall** operation can then be used to create a request to disconnect the target phone call.

The **PlayOnPhoneGreeting** operation, as specified in section [3.1.4.9](#Section_bb650dac5b9e44c8aa835b4f6ba968f5), initiates the playing of a greeting on a phone by providing the greeting type contained in the **GreetingType** element, as specified by section [3.1.4.9.2.1](#Section_b39429452e204eccb3f451a0958a3ba0), and the target phone number contained in the **DialString** element, as specified by section 3.1.4.9.2.1. The **PlayOnPhoneGreeting** operation response contains a phone call context handle that MUST be used by subsequent requests made by the **GetCallInfo** operation and the **Disconnect** operation. The phone call context handle returned by the **PlayOnPhoneGreeting** operation is specified by the text value of the **PlayOnPhoneGreetingResponse** child element of the **PlayOnPhoneGreetingResponse** element, as specified in section [3.1.4.9.2.2](#Section_a2f9fb07adf24a4389d1539d44c7a06d).

The **GetCallInfo** operation MUST use the phone call context handle provided by **PlayOnPhoneGreetingResponse** element of the **PlayOnPhoneGreetingResponse** operation. The **GetCallInfo** operation can then be used to create a request to get the target phone call's status.

The **Disconnect** operation MUST use the phone call context handle provided by **PlayOnPhoneGreetingResponse** element of the **PlayOnPhoneGreetingResponse** operation. The **Disconnect** operation can then be used to create a request to disconnect the target phone call.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

## Disconnect Operation

The following example shows how to form a request to disconnect a call that was previously initiated by a **PlayOnPhone** or **PlayOnPhoneGreeting** operation.

Before the **Disconnect** operation can be initiated, the following steps have to be performed:

1. Initiate a play-on-phone call by sending either a **PlayOnPhone** or **PlayOnPhoneGreeting** operation request. For more information, see the examples in sections [4.7](#Section_fbcf5ef5e8f140498a9030f2f6dda9b3) and [4.9](#Section_f1321692288547d4bfa7dd72e5b27b5a).
2. Save the **PlayOnPhoneResponse** element value in a temporary variable. This value is the telephone identifier that will be used when making the **Disconnect** operation request.

The following is the request to disconnect a call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <Disconnect xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <CallId>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQGRmLWV1bS0wMS5leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</CallId>
6. </Disconnect>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to a request to disconnect a call.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <DisconnectResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## DisconnectPhoneCall Operation

The following example shows how to form a request to disconnect a call that was previously initiated by the **PlayOnPhone2** operation.

Before the **DisconnectPhoneCall** operation can be initiated, the following steps have to be performed:

1. Initiate a play-on-phone call by sending a **PlayOnPhone2** request. For more information, see the example in section [4.8](#Section_3b982761a7e142ff801ba5c99776df2a).
2. Save the phone call identifier that is returned in the response from the **PhoneCallId** element.

The following is the request to disconnect a call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3. xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
4. xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
5. xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
6. xmlns:xs="http://www.w3.org/2001/XMLSchema">
7. <soap:Header>
8. <t:RequestServerVersion Version="Exchange2013" />
9. </soap:Header>
10. <soap:Body>
11. <m:DisconnectPhoneCall>
12. <m:PhoneCallId Id="OWVl4NWb3N29t"/>
13. </m:DisconnectPhoneCall>
14. </soap:Body>
15. </soap:Envelope>

The following is the response to a request to disconnect a call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Header>
4. <h:ServerVersionInfo MajorVersion="14"
5. MinorVersion="0"
6. MajorBuildNumber="639"
7. MinorBuildNumber="20"
8. Version="Exchange2013"
9. xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
10. xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
11. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
12. xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
13. </s:Header>
14. <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
15. xmlns:xsd="http://www.w3.org/2001/XMLSchema">
16. <DisconnectPhoneCallResponse ResponseClass="Success"
17. xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
18. <ResponseCode>NoError</ResponseCode>
19. </DisconnectPhoneCallResponse>
20. </s:Body>
21. </s:Envelope>

## GetCallInfo Operation

The following example shows how to get information about a specified outbound call that was previously initiated through a **PlayOnPhone** or **PlayOnPhoneGreeting** operation.

Before the **GetCallInfo** operation can be initiated, the following steps have to be performed:

1. Initiate a play-on-phone call by sending either a **PlayOnPhone** or **PlayOnPhoneGreeting** request. For more information, see the examples in sections [4.7](#Section_fbcf5ef5e8f140498a9030f2f6dda9b3) and [4.9](#Section_f1321692288547d4bfa7dd72e5b27b5a).
2. Save the **PlayOnPhoneResponse** element text value in a temporary variable. This value is the text value of the **CallId** element that will be used when making the **GetCallInfo** request.

The following is the request to get information about an outbound call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <GetCallInfo xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <CallId>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQGRmLWV1bS0wMS5leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</CallId>
6. </GetCallInfo>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to the request to get information about an outbound call.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <GetCallInfoResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <GetCallInfoResponse>
6. <CallState>Connected</CallState>
7. <EventCause>None</EventCause>
8. </GetCallInfoResponse>
9. </GetCallInfoResponse>
10. </soap:Body>
11. </soap:Envelope>

## GetPhoneCallInformation Operation

The following example shows how to get phone call status information about a specified outbound call that was initiated through the **PlayOnPhone2** operation.

Before the **GetPhoneCallInformation** operation can be initiated, the following steps have to be performed:

1. Initiate a play-on-phone call by sending a **PlayOnPhone2** operation request. For more information, see the example in section [4.8](#Section_3b982761a7e142ff801ba5c99776df2a).
2. Save the phone call identifier that is returned in the response from the **PhoneCallId** element.

The following is the request to get status information about an outbound call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3. xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
4. xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
5. xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
6. xmlns:xs="http://www.w3.org/2001/XMLSchema">
7. <soap:Header>
8. <t:RequestServerVersion Version="Exchange2013" />
9. </soap:Header>
10. <soap:Body>
11. <m:GetPhoneCallInformation>
12. <m:PhoneCallId Id="NDDY5uY29y9t"/>
13. </m:GetPhoneCallInformation>
14. </soap:Body>
15. </soap:Envelope>

The following is the response to the request to get status information about an outbound call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Header>
4. <h:ServerVersionInfo MajorVersion="14"
5. MinorVersion="0"
6. MajorBuildNumber="639"
7. MinorBuildNumber="20"
8. Version="Exchange2013"
9. xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
10. xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
11. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
12. xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
13. </s:Header>
14. <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
15. xmlns:xsd="http://www.w3.org/2001/XMLSchema">
16. <GetPhoneCallInformationResponse ResponseClass="Success"
17. xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
18. <ResponseCode>NoError</ResponseCode>
19. <m:PhoneCallInformation xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
20. <t:PhoneCallState xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">Connected</t:PhoneCallState>
21. <t:ConnectionFailureCause xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">None</t:ConnectionFailureCause>
22. </m:PhoneCallInformation>
23. </GetPhoneCallInformationResponse>
24. </s:Body>
25. </s:Envelope>

## GetUMProperties Operation

The following example shows how to retrieve the list of [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) properties for the [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) of the user who is making the request.

The following is the request to retrieve the list of properties.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <GetUMProperties xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

The following is the response to the request to retrieve the list of properties.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <GetUMPropertiesResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <GetUMPropertiesResponse>
6. <OofStatus>false</OofStatus>
7. <MissedCallNotificationEnabled>true</MissedCallNotificationEnabled>
8. <PlayOnPhoneDialString>12345</PlayOnPhoneDialString>
9. <TelephoneAccessNumbers>54321</TelephoneAccessNumbers>
10. <TelephoneAccessFolderEmail>AAAAAGsd2rbQLVtLobUGbrq/9IUBAEX2ikn/L8JJtI5WHI0FAW8AAAFXHhsAAA==</TelephoneAccessFolderEmail>
11. </GetUMPropertiesResponse>
12. </GetUMPropertiesResponse>
13. </soap:Body>
14. </soap:Envelope>

## IsUMEnabled Operation

The following example shows how to determine whether the [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) of the user who is making the request is enabled for [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357).

The following is the request to determine whether a mailbox is enabled for Unified Messaging.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <IsUMEnabled xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

The following is the response to the request to determine whether a mailbox is enabled for Unified Messaging.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <IsUMEnabledResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <IsUMEnabledResponse>true</IsUMEnabledResponse>
6. </IsUMEnabledResponse>
7. </soap:Body>
8. </soap:Envelope>

## PlayOnPhone Operation

The following example shows how to form a request to make an outbound call and play a message.

The following is the request to play a message.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <PlayOnPhone xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <entryId>AAAAAGsd2rbQLVtLobUGbrq/9IUHAEX2ikn/L8JJtI5WHI0FAW8AAAFXHhsAACxVpEl+KVVLl957wp//x6UAGAetcDUAAA==</entryId>
6. <DialString>12345</DialString>
7. </PlayOnPhone>
8. </soap:Body>
9. </soap:Envelope>

The following is the response to a request to play a message.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <PlayOnPhoneResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <PlayOnPhoneResponse>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQGRmLWV1bS0wMS5leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</PlayOnPhoneResponse>
6. </PlayOnPhoneResponse>
7. </soap:Body>
8. </soap:Envelope>

## PlayOnPhone2 Operation

The following example shows how to form a request to play a message or voice mail on an outbound phone call.

The following is the request to play a message or voice mail on an outbound call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3. xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
4. xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
5. xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
6. xmlns:xs="http://www.w3.org/2001/XMLSchema">
7. <soap:Header>
8. <t:RequestServerVersion Version="Exchange2013" />
9. </soap:Header>
10. <soap:Body>
11. <m:PlayOnPhone>
12. <m:ItemId Id="AkAjzQTbY/i="/>
13. <m:DialString>5555551212</m:DialString>
14. </m:PlayOnPhone>
15. </soap:Body>
16. </soap:Envelope>

The following is the response to a request to play a message or voice mail on an outbound call.

1. <?xml version="1.0" encoding="utf-8"?>
2. <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
3. <s:Header>
4. <h:ServerVersionInfo MajorVersion="14"
5. MinorVersion="0"
6. MajorBuildNumber="639"
7. MinorBuildNumber="20"
8. Version="Exchange2013"
9. xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
10. xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
11. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
12. xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
13. </s:Header>
14. <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
15. xmlns:xsd="http://www.w3.org/2001/XMLSchema">
16. <PlayOnPhoneResponse ResponseClass="Success"
17. xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
18. <ResponseCode>NoError</ResponseCode>
19. <PhoneCallId Id="ZWMtWYtMY29t"/>
20. </PlayOnPhoneResponse>
21. </s:Body>
22. </s:Envelope>

## PlayOnPhoneGreeting Operation

The following example of a **PlayOnPhoneGreeting** operation request shows how to form a request to make an outbound call and play the greeting message on a telephone.

The following is the request to play a greeting on a telephone.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <PlayOnPhoneGreeting xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <GreetingType>NormalCustom</GreetingType>
6. <DialString>12345</DialString>
7. </PlayOnPhoneGreeting>
8. </soap:Body>
9. </soap:Envelope>

The following is the response to a request to play a greeting on a telephone.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <PlayOnPhoneGreetingResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <PlayOnPhoneGreetingResponse>MjA4MTQ5MmItMTBmZC00ZGFmLThiMzEtNDllNDJjM2Y3MjIxQGRmLWV1bS0wMS5leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</PlayOnPhoneGreetingResponse>
6. </PlayOnPhoneGreetingResponse>
7. </soap:Body>
8. </soap:Envelope>

## ResetPIN Operation

The following example shows how to form a request to reset the password of the user who is making the request.

The following is the request to reset the password.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <ResetPIN xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

The following is the response to the request to reset the password.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <ResetPINResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## SetMissedCallNotificationEnabled Operation

The following example shows how to form a request to enable missed-call notifications for the user who is making the request.

The following is the request to enable missed-call notifications.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <SetMissedCallNotificationEnabled xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <status>true</status>
6. </SetMissedCallNotificationEnabled>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to the request to enable missed-call notifications.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <SetMissedCallNotificationEnabledResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## SetOofStatus Operation

The **SetOofStatus** operation sets a value that indicates whether the [**Out of Office (OOF)**](#gt_d4ab6719-b583-467a-a631-95feb7a5ea34) greeting is enabled for the user who is making the request.

The following is the request to set the OOF greeting.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <SetOofStatus xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <status>true</status>
6. </SetOofStatus>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to the request to set the OOF greeting.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <SetOofStatusResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## SetPlayOnPhoneDialString Operation

The following example shows how to form a request to set the default telephone number for the user who is making the request.

The following is the request to set the default telephone number.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <SetPlayOnPhoneDialString xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <dialString>12345</dialString>
6. </SetPlayOnPhoneDialString>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to the request to set the default telephone number.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <SetPlayOnPhoneDialStringResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## SetTelephoneAccessFolderEmail Operation

The following example shows how to form a request to set the folder from which a [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) server will read back to the user over the telephone.

The following is the request to set the folder.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <SetTelephoneAccessFolderEmail xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <base64FolderID>AAAAAGsd2rbQLVtLobUGbrq/9IUBAEX2ikn/L8JJtI5WHI0FAW8AAAFXHhsAAA==</base64FolderID>
6. </SetTelephoneAccessFolderEmail>
7. </soap:Body>
8. </soap:Envelope>

The following is the response to the request to set the folder.

1. <?xml version="1.0" encoding="utf-8" ?>
2. <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">
3. <soap:Body>
4. <SetTelephoneAccessFolderEmailResponse xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
5. </soap:Body>
6. </soap:Envelope>

## SOAP Fault

Any of the Voice Mail Settings Web Service Protocol operations can return a [**SOAP fault**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f). A SOAP fault element is used to carry error and/or status information within a [**SOAP message**](#gt_96185df3-4677-478c-b239-f72fcf514c59) when there is an incorrectly formatted request or where there are configuration failures. The following example shows a SOAP fault message in response to an invalid **PlayOnPhone** operation request.

The following is an invalid **PlayOnPhone** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
3. <soap:Body>
4. <PlayOnPhone xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <entryId>INVALID\_ENTRY\_ID</entryId>
6. <DialString>12345</DialString>
7. </PlayOnPhone>
8. </soap:Body>
9. </soap:Envelope>

The following is the SOAP fault response to the invalid **PlayOnPhone** operation request.

1. <?xml version="1.0" encoding="utf-8"?>
2. <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">
3. <soap:Body>
4. <soap:Fault>
5. <faultcode>a:InvalidObjectIdException</faultcode>
6. <faultstring>The object identifier isn't valid</faultstring>
7. <detail>
8. <ExceptionType xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">InvalidObjectIdException</ExceptionType>
9. </detail>
10. </soap:Fault>
11. </soap:Body>
12. </soap:Envelope>

# Security

## Security Considerations for Implementers

The Voice Mail Settings Web Service Protocol relies on the Web server that hosts the application to perform authentication.

Use of the Voice Mail Settings Web Service Protocol requires the use of secure communication via HTTPS, as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383).

## Index of Security Parameters

None.

# Appendix A: Full WSDL

The XML files that are listed in the following table are required in order to implement the functionality specified in this document.

| File name | Description | Section |
| --- | --- | --- |
| MS-OXWUMS.wsdl | Contains the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) for the implementation of this protocol. | 6 |
| MS-OXWUMS-messages.xsd | Contains the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) message definitions that are used in this protocol. | [7.1](#Section_b320c16a2fef4b098ac066974f187373) |
| MS-OXWUMS-types.xsd | Contains the XML schema type definitions that are used in this protocol. | [7.2](#Section_824b3bfa1593495fa8ae71679fb2bcc0) |

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWUMS-types.xsd or MS-OXWUMS-messages.xsd schemas have to be placed in the common folder with these files.

This section contains the contents of the MS-OXWUMS.wsdl file.

1. <?xml version="1.0" encoding="utf-8"?>
2. <wsdl:definitions xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
3. <wsdl:types>
4. <s:schema elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
5. <s:include schemaLocation="MS-OXWUMS-messages.xsd"/>
6. </s:schema>
7. </wsdl:types>
8. <wsdl:message name="IsUMEnabledSoapIn">
9. <wsdl:part name="parameters" element="tns:IsUMEnabled"/>
10. </wsdl:message>
11. <wsdl:message name="IsUMEnabledSoapOut">
12. <wsdl:part name="parameters" element="tns:IsUMEnabledResponse"/>
13. </wsdl:message>
14. <wsdl:message name="GetUMPropertiesSoapIn">
15. <wsdl:part name="parameters" element="tns:GetUMProperties"/>
16. </wsdl:message>
17. <wsdl:message name="GetUMPropertiesSoapOut">
18. <wsdl:part name="parameters" element="tns:GetUMPropertiesResponse"/>
19. </wsdl:message>
20. <wsdl:message name="SetOofStatusSoapIn">
21. <wsdl:part name="parameters" element="tns:SetOofStatus"/>
22. </wsdl:message>
23. <wsdl:message name="SetOofStatusSoapOut">
24. <wsdl:part name="parameters" element="tns:SetOofStatusResponse"/>
25. </wsdl:message>
26. <wsdl:message name="SetPlayOnPhoneDialStringSoapIn">
27. <wsdl:part name="parameters" element="tns:SetPlayOnPhoneDialString"/>
28. </wsdl:message>
29. <wsdl:message name="SetPlayOnPhoneDialStringSoapOut">
30. <wsdl:part name="parameters" element="tns:SetPlayOnPhoneDialStringResponse"/>
31. </wsdl:message>
32. <wsdl:message name="SetTelephoneAccessFolderEmailSoapIn">
33. <wsdl:part name="parameters" element="tns:SetTelephoneAccessFolderEmail"/>
34. </wsdl:message>
35. <wsdl:message name="SetTelephoneAccessFolderEmailSoapOut">
36. <wsdl:part name="parameters" element="tns:SetTelephoneAccessFolderEmailResponse"/>
37. </wsdl:message>
38. <wsdl:message name="SetMissedCallNotificationEnabledSoapIn">
39. <wsdl:part name="parameters" element="tns:SetMissedCallNotificationEnabled"/>
40. </wsdl:message>
41. <wsdl:message name="SetMissedCallNotificationEnabledSoapOut">
42. <wsdl:part name="parameters" element="tns:SetMissedCallNotificationEnabledResponse"/>
43. </wsdl:message>
44. <wsdl:message name="ResetPINSoapIn">
45. <wsdl:part name="parameters" element="tns:ResetPIN"/>
46. </wsdl:message>
47. <wsdl:message name="ResetPINSoapOut">
48. <wsdl:part name="parameters" element="tns:ResetPINResponse"/>
49. </wsdl:message>
50. <wsdl:message name="PlayOnPhoneSoapIn">
51. <wsdl:part name="parameters" element="tns:PlayOnPhone"/>
52. </wsdl:message>
53. <wsdl:message name="PlayOnPhoneSoapOut">
54. <wsdl:part name="parameters" element="tns:PlayOnPhoneResponse"/>
55. </wsdl:message>
56. <wsdl:message name="GetCallInfoSoapIn">
57. <wsdl:part name="parameters" element="tns:GetCallInfo"/>
58. </wsdl:message>
59. <wsdl:message name="GetCallInfoSoapOut">
60. <wsdl:part name="parameters" element="tns:GetCallInfoResponse"/>
61. </wsdl:message>
62. <wsdl:message name="DisconnectSoapIn">
63. <wsdl:part name="parameters" element="tns:Disconnect"/>
64. </wsdl:message>
65. <wsdl:message name="DisconnectSoapOut">
66. <wsdl:part name="parameters" element="tns:DisconnectResponse"/>
67. </wsdl:message>
68. <wsdl:message name="PlayOnPhoneGreetingSoapIn">
69. <wsdl:part name="parameters" element="tns:PlayOnPhoneGreeting"/>
70. </wsdl:message>
71. <wsdl:message name="PlayOnPhoneGreetingSoapOut">
72. <wsdl:part name="parameters" element="tns:PlayOnPhoneGreetingResponse"/>
73. </wsdl:message>
74. <wsdl:message name="DisconnectPhoneCallSoapIn">
75. <wsdl:part name="request" element="tns:DisconnectPhoneCall"/>
76. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
77. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
78. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
79. </wsdl:message>
80. <wsdl:message name="DisconnectPhoneCallSoapOut">
81. <wsdl:part name="DisconnectPhoneCallResult" element="tns:DisconnectPhoneCallResponse"/>
82. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
83. </wsdl:message>
84. <wsdl:message name="GetPhoneCallInformationSoapIn">
85. <wsdl:part name="request" element="tns:GetPhoneCallInformation"/>
86. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
87. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
88. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
89. </wsdl:message>
90. <wsdl:message name="GetPhoneCallInformationSoapOut">
91. <wsdl:part name="GetPhoneCallInformationResult" element="tns:GetPhoneCallInformationResponse"/>
92. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
93. </wsdl:message>
94. <wsdl:message name="PlayOnPhoneSoapIn2">
95. <wsdl:part name="request" type="tns:PlayOnPhone2Type"/>
96. <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
97. <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
98. <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
99. </wsdl:message>
100. <wsdl:message name="PlayOnPhoneSoapOut2">
101. <wsdl:part name="PlayOnPhoneResult" type="tns:PlayOnPhoneResponse2Type"/>
102. <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
103. </wsdl:message>
104. <wsdl:portType name="UMWebServiceSoap">
105. <wsdl:operation name="IsUMEnabled">
106. <wsdl:input message="tns:IsUMEnabledSoapIn"/>
107. <wsdl:output message="tns:IsUMEnabledSoapOut"/>
108. </wsdl:operation>
109. <wsdl:operation name="GetUMProperties">
110. <wsdl:input message="tns:GetUMPropertiesSoapIn"/>
111. <wsdl:output message="tns:GetUMPropertiesSoapOut"/>
112. </wsdl:operation>
113. <wsdl:operation name="SetOofStatus">
114. <wsdl:input message="tns:SetOofStatusSoapIn"/>
115. <wsdl:output message="tns:SetOofStatusSoapOut"/>
116. </wsdl:operation>
117. <wsdl:operation name="SetPlayOnPhoneDialString">
118. <wsdl:input message="tns:SetPlayOnPhoneDialStringSoapIn"/>
119. <wsdl:output message="tns:SetPlayOnPhoneDialStringSoapOut"/>
120. </wsdl:operation>
121. <wsdl:operation name="SetTelephoneAccessFolderEmail">
122. <wsdl:input message="tns:SetTelephoneAccessFolderEmailSoapIn"/>
123. <wsdl:output message="tns:SetTelephoneAccessFolderEmailSoapOut"/>
124. </wsdl:operation>
125. <wsdl:operation name="SetMissedCallNotificationEnabled">
126. <wsdl:input message="tns:SetMissedCallNotificationEnabledSoapIn"/>
127. <wsdl:output message="tns:SetMissedCallNotificationEnabledSoapOut"/>
128. </wsdl:operation>
129. <wsdl:operation name="ResetPIN">
130. <wsdl:input message="tns:ResetPINSoapIn"/>
131. <wsdl:output message="tns:ResetPINSoapOut"/>
132. </wsdl:operation>
133. <wsdl:operation name="PlayOnPhone">
134. <wsdl:input message="tns:PlayOnPhoneSoapIn"/>
135. <wsdl:output message="tns:PlayOnPhoneSoapOut"/>
136. </wsdl:operation>
137. <wsdl:operation name="GetCallInfo">
138. <wsdl:input message="tns:GetCallInfoSoapIn"/>
139. <wsdl:output message="tns:GetCallInfoSoapOut"/>
140. </wsdl:operation>
141. <wsdl:operation name="Disconnect">
142. <wsdl:input message="tns:DisconnectSoapIn"/>
143. <wsdl:output message="tns:DisconnectSoapOut"/>
144. </wsdl:operation>
145. <wsdl:operation name="PlayOnPhoneGreeting">
146. <wsdl:input message="tns:PlayOnPhoneGreetingSoapIn"/>
147. <wsdl:output message="tns:PlayOnPhoneGreetingSoapOut"/>
148. </wsdl:operation>
149. <wsdl:operation name="DisconnectPhoneCall">
150. <wsdl:input message="tns:DisconnectPhoneCallSoapIn"/>
151. <wsdl:output message="tns:DisconnectPhoneCallSoapOut"/>
152. </wsdl:operation>
153. <wsdl:operation name="GetPhoneCallInformation">
154. <wsdl:input message="tns:GetPhoneCallInformationSoapIn"/>
155. <wsdl:output message="tns:GetPhoneCallInformationSoapOut"/>
156. </wsdl:operation>
157. <wsdl:operation name="PlayOnPhone2">
158. <wsdl:input message="tns:PlayOnPhoneSoapIn2"/>
159. <wsdl:output message="tns:PlayOnPhoneSoapOut2"/>
160. </wsdl:operation>
161. </wsdl:portType>
162. <wsdl:binding name="UMWebServiceSoap" type="tns:UMWebServiceSoap">
163. <wsdl:documentation>
164. <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.1" xmlns:wsi="http://ws-i.org/schemas/conformanceClaim/"/>
165. </wsdl:documentation>
166. <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
167. <wsdl:operation name="IsUMEnabled">
168. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/IsUMEnabled" style="document"/>
169. <wsdl:input>
170. <soap:body use="literal"/>
171. </wsdl:input>
172. <wsdl:output>
173. <soap:body use="literal"/>
174. </wsdl:output>
175. </wsdl:operation>
176. <wsdl:operation name="GetUMProperties">
177. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUMProperties" style="document"/>
178. <wsdl:input>
179. <soap:body use="literal"/>
180. </wsdl:input>
181. <wsdl:output>
182. <soap:body use="literal"/>
183. </wsdl:output>
184. </wsdl:operation>
185. <wsdl:operation name="SetOofStatus">
186. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetOofStatus" style="document"/>
187. <wsdl:input>
188. <soap:body use="literal"/>
189. </wsdl:input>
190. <wsdl:output>
191. <soap:body use="literal"/>
192. </wsdl:output>
193. </wsdl:operation>
194. <wsdl:operation name="SetPlayOnPhoneDialString">
195. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetPlayOnPhoneDialString" style="document"/>
196. <wsdl:input>
197. <soap:body use="literal"/>
198. </wsdl:input>
199. <wsdl:output>
200. <soap:body use="literal"/>
201. </wsdl:output>
202. </wsdl:operation>
203. <wsdl:operation name="SetTelephoneAccessFolderEmail">
204. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetTelephoneAccessFolderEmail" style="document"/>
205. <wsdl:input>
206. <soap:body use="literal"/>
207. </wsdl:input>
208. <wsdl:output>
209. <soap:body use="literal"/>
210. </wsdl:output>
211. </wsdl:operation>
212. <wsdl:operation name="SetMissedCallNotificationEnabled">
213. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetMissedCallNotificationEnabled" style="document"/>
214. <wsdl:input>
215. <soap:body use="literal"/>
216. </wsdl:input>
217. <wsdl:output>
218. <soap:body use="literal"/>
219. </wsdl:output>
220. </wsdl:operation>
221. <wsdl:operation name="ResetPIN">
222. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ResetPIN" style="document"/>
223. <wsdl:input>
224. <soap:body use="literal"/>
225. </wsdl:input>
226. <wsdl:output>
227. <soap:body use="literal"/>
228. </wsdl:output>
229. </wsdl:operation>
230. <wsdl:operation name="PlayOnPhone">
231. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone" style="document"/>
232. <wsdl:input>
233. <soap:body use="literal"/>
234. </wsdl:input>
235. <wsdl:output>
236. <soap:body use="literal"/>
237. </wsdl:output>
238. </wsdl:operation>
239. <wsdl:operation name="GetCallInfo">
240. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetCallInfo" style="document"/>
241. <wsdl:input>
242. <soap:body use="literal"/>
243. </wsdl:input>
244. <wsdl:output>
245. <soap:body use="literal"/>
246. </wsdl:output>
247. </wsdl:operation>
248. <wsdl:operation name="Disconnect">
249. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/Disconnect" style="document"/>
250. <wsdl:input>
251. <soap:body use="literal"/>
252. </wsdl:input>
253. <wsdl:output>
254. <soap:body use="literal"/>
255. </wsdl:output>
256. </wsdl:operation>
257. <wsdl:operation name="PlayOnPhoneGreeting">
258. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhoneGreeting" style="document"/>
259. <wsdl:input>
260. <soap:body use="literal"/>
261. </wsdl:input>
262. <wsdl:output>
263. <soap:body use="literal"/>
264. </wsdl:output>
265. </wsdl:operation>
266. <wsdl:operation name="PlayOnPhone2">
267. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone"/>
268. <wsdl:input>
269. <soap:body parts="request" use="literal"/>
270. <soap:header message="tns:PlayOnPhoneSoapIn2" part="Impersonation" use="literal"/>
271. <soap:header message="tns:PlayOnPhoneSoapIn2" part="MailboxCulture" use="literal"/>
272. <soap:header message="tns:PlayOnPhoneSoapIn2" part="RequestVersion" use="literal"/>
273. </wsdl:input>
274. <wsdl:output>
275. <soap:body parts="PlayOnPhoneResult" use="literal"/>
276. <soap:header message="tns:PlayOnPhoneSoapOut2" part="ServerVersion" use="literal"/>
277. </wsdl:output>
278. </wsdl:operation>
279. <wsdl:operation name="GetPhoneCallInformation">
280. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetPhoneCallInformation"/>
281. <wsdl:input>
282. <soap:body parts="request" use="literal"/>
283. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="Impersonation" use="literal"/>
284. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="MailboxCulture" use="literal"/>
285. <soap:header message="tns:GetPhoneCallInformationSoapIn" part="RequestVersion" use="literal"/>
286. </wsdl:input>
287. <wsdl:output>
288. <soap:body parts="GetPhoneCallInformationResult" use="literal"/>
289. <soap:header message="tns:GetPhoneCallInformationSoapOut" part="ServerVersion" use="literal"/>
290. </wsdl:output>
291. </wsdl:operation>
292. <wsdl:operation name="DisconnectPhoneCall">
293. <soap:operation soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DisconnectPhoneCall"/>
294. <wsdl:input>
295. <soap:body parts="request" use="literal"/>
296. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="Impersonation" use="literal"/>
297. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="MailboxCulture" use="literal"/>
298. <soap:header message="tns:DisconnectPhoneCallSoapIn" part="RequestVersion" use="literal"/>
299. </wsdl:input>
300. <wsdl:output>
301. <soap:body parts="DisconnectPhoneCallResult" use="literal"/>
302. <soap:header message="tns:DisconnectPhoneCallSoapOut" part="ServerVersion" use="literal"/>
303. </wsdl:output>
304. </wsdl:operation>
305. </wsdl:binding>
306. </wsdl:definitions>

# Appendix B: Full XML Schema

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

| Schema name | Prefix | Section |
| --- | --- | --- |
| Messages schema | m: | [7.1](#Section_b320c16a2fef4b098ac066974f187373) |
| Types schema | t: | [7.2](#Section_824b3bfa1593495fa8ae71679fb2bcc0) |

These files have to be placed in a common folder in order for the WSDL to validate and operate. Also, any schema files that are included in or imported into the MS-OXWUMS-types.xsd or MS-OXWUMS-messages.xsd schemas have to be placed in the common folder along with the files listed in the table.

## Messages Schema

This section contains the contents of the MS-OXWUMS-messages.xsd file and information about additional files that this schema file requires to operate correctly.

MS-OXWUMS-messages.xsd includes the file listed in the following table. To operate correctly, this file has to be present in the folder that contains the WSDL, types schema, and messages schema files for this protocol.

| File name | Defining specification/section |
| --- | --- |
| MS-OXWSCDATA-messages.xsd | [[MS-OXWSCDATA]](%5BMS-OXWSCDATA%5D.pdf#Section_138909444c814debb95f6d717e1438cd) section 7.1 |
| MS-OXWUMS-types.xsd | Section [7.2](#Section_824b3bfa1593495fa8ae71679fb2bcc0) |

1. <?xml version="1.0" encoding="utf-8"?>
2. <xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages" xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages" xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:s="http://www.w3.org/2001/XMLSchema" targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages" elementFormDefault="qualified" version="Exchange2016" id="messages">
3. <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
4. <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types" schemaLocation="MS-OXWUMS-types.xsd"/>
5. <s:element name="IsUMEnabled">
6. <s:complexType/>
7. </s:element>
8. <s:element name="IsUMEnabledResponse">
9. <s:complexType>
10. <s:sequence>
11. <s:element minOccurs="1" maxOccurs="1" name="IsUMEnabledResponse" type="s:boolean"/>
12. </s:sequence>
13. </s:complexType>
14. </s:element>
15. <s:element name="GetUMProperties">
16. <s:complexType/>
17. </s:element>
18. <s:element name="GetUMPropertiesResponse">
19. <s:complexType>
20. <s:sequence>
21. <s:element minOccurs="0" maxOccurs="1" name="GetUMPropertiesResponse" type="tns:UMProperties"/>
22. </s:sequence>
23. </s:complexType>
24. </s:element>
25. <s:complexType name="UMProperties">
26. <s:sequence>
27. <s:element minOccurs="1" maxOccurs="1" name="OofStatus" type="s:boolean"/>
28. <s:element minOccurs="1" maxOccurs="1" name="MissedCallNotificationEnabled" type="s:boolean"/>
29. <s:element minOccurs="0" maxOccurs="1" name="PlayOnPhoneDialString" type="s:string"/>
30. <s:element minOccurs="0" maxOccurs="1" name="TelephoneAccessNumbers" type="s:string"/>
31. <s:element minOccurs="0" maxOccurs="1" name="TelephoneAccessFolderEmail" type="s:string"/>
32. </s:sequence>
33. </s:complexType>
34. <s:element name="SetOofStatus">
35. <s:complexType>
36. <s:sequence>
37. <s:element minOccurs="1" maxOccurs="1" name="status" type="s:boolean"/>
38. </s:sequence>
39. </s:complexType>
40. </s:element>
41. <s:element name="SetOofStatusResponse">
42. <s:complexType/>
43. </s:element>
44. <s:element name="SetPlayOnPhoneDialString">
45. <s:complexType>
46. <s:sequence>
47. <s:element minOccurs="0" maxOccurs="1" name="dialString" type="s:string"/>
48. </s:sequence>
49. </s:complexType>
50. </s:element>
51. <s:element name="SetPlayOnPhoneDialStringResponse">
52. <s:complexType/>
53. </s:element>
54. <s:element name="SetTelephoneAccessFolderEmail">
55. <s:complexType>
56. <s:sequence>
57. <s:element minOccurs="0" maxOccurs="1" name="base64FolderId" type="s:string"/>
58. </s:sequence>
59. </s:complexType>
60. </s:element>
61. <s:element name="SetTelephoneAccessFolderEmailResponse">
62. <s:complexType/>
63. </s:element>
64. <s:element name="SetMissedCallNotificationEnabled">
65. <s:complexType>
66. <s:sequence>
67. <s:element minOccurs="1" maxOccurs="1" name="status" type="s:boolean"/>
68. </s:sequence>
69. </s:complexType>
70. </s:element>
71. <s:element name="SetMissedCallNotificationEnabledResponse">
72. <s:complexType/>
73. </s:element>
74. <s:element name="ResetPIN">
75. <s:complexType/>
76. </s:element>
77. <s:element name="ResetPINResponse">
78. <s:complexType/>
79. </s:element>
80. <s:element name="PlayOnPhone">
81. <s:complexType>
82. <s:sequence>
83. <s:element minOccurs="0" maxOccurs="1" name="entryId" type="s:string"/>
84. <s:element minOccurs="0" maxOccurs="1" name="DialString" type="s:string"/>
85. </s:sequence>
86. </s:complexType>
87. </s:element>
88. <s:element name="PlayOnPhoneResponse">
89. <s:complexType>
90. <s:sequence>
91. <s:element minOccurs="0" maxOccurs="1" name="PlayOnPhoneResponse" type="s:string"/>
92. </s:sequence>
93. </s:complexType>
94. </s:element>
95. <s:element name="GetCallInfo">
96. <s:complexType>
97. <s:sequence>
98. <s:element minOccurs="0" maxOccurs="1" name="CallId" type="s:string"/>
99. </s:sequence>
100. </s:complexType>
101. </s:element>
102. <s:element name="GetCallInfoResponse">
103. <s:complexType>
104. <s:sequence>
105. <s:element minOccurs="0" maxOccurs="1" name="GetCallInfoResponse" type="tns:UMCallInfo"/>
106. </s:sequence>
107. </s:complexType>
108. </s:element>
109. <s:complexType name="UMCallInfo">
110. <s:sequence>
111. <s:element minOccurs="1" maxOccurs="1" name="CallState" type="tns:UMCallState"/>
112. <s:element minOccurs="1" maxOccurs="1" name="EventCause" type="tns:UMEventCause"/>
113. </s:sequence>
114. </s:complexType>
115. <s:simpleType name="UMCallState">
116. <s:restriction base="s:string">
117. <s:enumeration value="Idle"/>
118. <s:enumeration value="Connecting"/>
119. <s:enumeration value="Alerted"/>
120. <s:enumeration value="Connected"/>
121. <s:enumeration value="Disconnected"/>
122. <s:enumeration value="Incoming"/>
123. <s:enumeration value="Transferring"/>
124. <s:enumeration value="Forwarding"/>
125. </s:restriction>
126. </s:simpleType>
127. <s:simpleType name="UMEventCause">
128. <s:restriction base="s:string">
129. <s:enumeration value="None"/>
130. <s:enumeration value="UserBusy"/>
131. <s:enumeration value="NoAnswer"/>
132. <s:enumeration value="Unavailable"/>
133. <s:enumeration value="Other"/>
134. </s:restriction>
135. </s:simpleType>
136. <s:element name="Disconnect">
137. <s:complexType>
138. <s:sequence>
139. <s:element minOccurs="0" maxOccurs="1" name="CallId" type="s:string"/>
140. </s:sequence>
141. </s:complexType>
142. </s:element>
143. <s:element name="DisconnectResponse">
144. <s:complexType/>
145. </s:element>
146. <s:element name="PlayOnPhoneGreeting">
147. <s:complexType>
148. <s:sequence>
149. <s:element minOccurs="1" maxOccurs="1" name="GreetingType" type="tns:UMGreetingType"/>
150. <s:element minOccurs="0" maxOccurs="1" name="DialString" type="s:string"/>
151. </s:sequence>
152. </s:complexType>
153. </s:element>
154. <s:simpleType name="UMGreetingType">
155. <s:restriction base="s:string">
156. <s:enumeration value="NormalCustom"/>
157. <s:enumeration value="OofCustom"/>
158. </s:restriction>
159. </s:simpleType>
160. <s:element name="PlayOnPhoneGreetingResponse">
161. <s:complexType>
162. <s:sequence>
163. <s:element minOccurs="0" maxOccurs="1" name="PlayOnPhoneGreetingResponse" type="s:string"/>
164. </s:sequence>
165. </s:complexType>
166. </s:element>
167. <xs:complexType name="DisconnectPhoneCallResponseMessageType">
168. <xs:complexContent>
169. <xs:extension base="m:ResponseMessageType"/>
170. </xs:complexContent>
171. </xs:complexType>
172. <xs:complexType name="DisconnectPhoneCallType">
173. <xs:complexContent>
174. <xs:extension base="m:BaseRequestType">
175. <xs:sequence>
176. <xs:element name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="1" maxOccurs="1"/>
177. </xs:sequence>
178. </xs:extension>
179. </xs:complexContent>
180. </xs:complexType>
181. <xs:element name="DisconnectPhoneCall" type="m:DisconnectPhoneCallType"/>
182. <xs:element name="DisconnectPhoneCallResponse" type="m:DisconnectPhoneCallResponseMessageType"/>
183. <xs:complexType name="GetPhoneCallInformationType">
184. <xs:complexContent>
185. <xs:extension base="m:BaseRequestType">
186. <xs:sequence>
187. <xs:element name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="1" maxOccurs="1"/>
188. </xs:sequence>
189. </xs:extension>
190. </xs:complexContent>
191. </xs:complexType>
192. <xs:complexType name="GetPhoneCallInformationResponseMessageType">
193. <xs:complexContent>
194. <xs:extension base="m:ResponseMessageType">
195. <xs:sequence>
196. <xs:element name="PhoneCallInformation" type="t:PhoneCallInformationType" minOccurs="0" maxOccurs="1"/>
197. </xs:sequence>
198. </xs:extension>
199. </xs:complexContent>
200. </xs:complexType>
201. <xs:element name="GetPhoneCallInformation" type="m:GetPhoneCallInformationType"/>
202. <xs:element name="GetPhoneCallInformationResponse" type="m:GetPhoneCallInformationResponseMessageType"/>
203. <xs:complexType name="PlayOnPhoneType">
204. <xs:complexContent>
205. <xs:extension base="m:BaseRequestType">
206. <xs:sequence>
207. <xs:element name="ItemId" type="t:ItemIdType" minOccurs="1" maxOccurs="1"/>
208. <xs:element name="DialString" type="xs:string" minOccurs="1" maxOccurs="1"/>
209. </xs:sequence>
210. </xs:extension>
211. </xs:complexContent>
212. </xs:complexType>
213. <xs:complexType name="PlayOnPhone2Type">
214. <xs:sequence>
215. <xs:element name="PlayOnPhone" type="m:PlayOnPhoneType"/>
216. </xs:sequence>
217. </xs:complexType>
218. <xs:complexType name="PlayOnPhoneResponseMessageType">
219. <xs:complexContent>
220. <xs:extension base="m:ResponseMessageType">
221. <xs:sequence>
222. <xs:element name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="0" maxOccurs="1"/>
223. </xs:sequence>
224. </xs:extension>
225. </xs:complexContent>
226. </xs:complexType>
227. <xs:complexType name="PlayOnPhoneResponse2Type">
228. <xs:sequence>
229. <xs:element name="PlayOnPhoneResponse" type="m:PlayOnPhoneResponseMessageType"/>
230. </xs:sequence>
231. </xs:complexType>
232. </xs:schema>

## Types Schema

This section contains the contents of the MS-OXWUMS-types.xsd file.

1. <?xml version="1.0" encoding="utf-8"?>
2. <xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types" xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types" elementFormDefault="qualified" version="Exchange2016" id="types">
3. <xs:complexType name="PhoneCallIdType">
4. <xs:attribute name="Id" type="xs:string" use="required"/>
5. </xs:complexType>
6. <xs:simpleType name="ConnectionFailureCauseType">
7. <xs:restriction base="xs:string">
8. <xs:enumeration value="None"/>
9. <xs:enumeration value="UserBusy"/>
10. <xs:enumeration value="NoAnswer"/>
11. <xs:enumeration value="Unavailable"/>
12. <xs:enumeration value="Other"/>
13. </xs:restriction>
14. </xs:simpleType>
15. <xs:simpleType name="PhoneCallStateType">
16. <xs:restriction base="xs:string">
17. <xs:enumeration value="Idle"/>
18. <xs:enumeration value="Connecting"/>
19. <xs:enumeration value="Alerted"/>
20. <xs:enumeration value="Connected"/>
21. <xs:enumeration value="Disconnected"/>
22. <xs:enumeration value="Incoming"/>
23. <xs:enumeration value="Transferring"/>
24. <xs:enumeration value="Forwarding"/>
25. </xs:restriction>
26. </xs:simpleType>
27. <xs:complexType name="PhoneCallInformationType">
28. <xs:sequence>
29. <xs:element name="PhoneCallState" type="t:PhoneCallStateType" minOccurs="1" maxOccurs="1"/>
30. <xs:element name="ConnectionFailureCause" type="t:ConnectionFailureCauseType" minOccurs="1" maxOccurs="1"/>
31. <xs:element name="SIPResponseText" type="xs:string" minOccurs="0" maxOccurs="1"/>
32. <xs:element name="SIPResponseCode" type="xs:int" minOccurs="0" maxOccurs="1"/>
33. </xs:sequence>
34. </xs:complexType>
35. </xs:schema>

# 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 Exchange Server 2007
* Microsoft Exchange Server 2010
* Microsoft Exchange Server 2013
* Microsoft Exchange Server 2016
* Microsoft Exchange Server 2019
* Microsoft Office Outlook 2007
* Microsoft Outlook 2010
* Microsoft Outlook 2013
* Microsoft Outlook 2016
* Microsoft Outlook 2019
* Microsoft Outlook 2021

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

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

[<1> Section 3.1.4](#Appendix_A_Target_1): Exchange 2007 does not implement the **DisconnectPhoneCall** operation.

[<2> Section 3.1.4](#Appendix_A_Target_2): Exchange 2007 does not implement the **GetPhoneCallInformation** operation.

[<3> Section 3.1.4](#Appendix_A_Target_3): Exchange 2007 does not implement the **PlayOnPhone2** operation.

[<4> Section 3.1.4.1](#Appendix_A_Target_4): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server" and a **faultstring** element with a text string of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<5> Section 3.1.4.1](#Appendix_A_Target_5): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server".

[<6> Section 3.1.4.1](#Appendix_A_Target_6): Exchange 2007 returns the **faultstring** element with a text string of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<7> Section 3.1.4.2](#Appendix_A_Target_7): Exchange 2007 does not implement and Office Outlook 2007 does not use the **DisconnectPhoneCall** operation

[<8> Section 3.1.4.3](#Appendix_A_Target_8): Exchange 2007 returns the **faultcode** element with a text value of "soap:Server" and the **faultstring** element with a text value of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<9> Section 3.1.4.3](#Appendix_A_Target_9): Exchange 2007 returns the **faultcode** element with a text value of "soap:Server".

[<10> Section 3.1.4.3](#Appendix_A_Target_10): Exchange 2007 returns the **faultstring** element with a text value of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<11> Section 3.1.4.4](#Appendix_A_Target_11): Exchange 2007 does not implement and Office Outlook 2007 does not use the **GetPhoneCallInformation** operation.

[<12> Section 3.1.4.6](#Appendix_A_Target_12): Office Outlook 2007 and Outlook 2010 do not use the **IsUMEnabled** operation.

[<13> Section 3.1.4.7](#Appendix_A_Target_13): Exchange 2007 does not implement and Office Outlook 2007 does not use the **PlayOnPhone2** operation.

[<14> Section 3.1.4.8](#Appendix_A_Target_14): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server" and the **faultstring** element with a text string of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<15> Section 3.1.4.8](#Appendix_A_Target_15): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server".

[<16> Section 3.1.4.8](#Appendix_A_Target_16): Exchange 2007 returns the **faultstring** element with a text string of "The caller ID is not valid. ---> The caller ID is not valid. ---> Invalid character in a Base-64 string."

[<17> Section 3.1.4.8](#Appendix_A_Target_17): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server" and the **faultstring** element with a text string of "The object identifier is not valid. ---> The object identifier is not valid. ---> Invalid character in a Base-64 string."

[<18> Section 3.1.4.8](#Appendix_A_Target_18): Exchange 2007 returns the **faultcode** element with a text string of "soap:Server".

[<19> Section 3.1.4.8](#Appendix_A_Target_19): Exchange 2007 returns the **faultstring** element with a text string of "The object identifier is not valid. ---> The object identifier is not valid. ---> Invalid character in a Base-64 string."

[<20> Section 3.1.4.9](#Appendix_A_Target_20): Exchange 2007 returns the **faultcode** element with a text value of "soap:Server" and the **faultstring** element with a text value of "The telephone number cannot be dialed as specified. Check the outbound dialing configuration. ---> The telephone number cannot be dialed as specified. Check the outbound dialing configuration."

[<21> Section 3.1.4.9](#Appendix_A_Target_21): Exchange 2007 returns the **faultcode** element with a text value of "soap:Server".

[<22> Section 3.1.4.9](#Appendix_A_Target_22): Exchange 2007 returns the **faultstring** element with a text value of "The telephone number cannot be dialed as specified. Check the outbound dialing configuration. ---> The telephone number cannot be dialed as specified. Check the outbound dialing configuration."

[<23> Section 3.1.4.10](#Appendix_A_Target_23): Exchange 2007, Exchange 2010, Exchange 2013, Exchange 2016, and Exchange 2019 send an e-mail message with the new [**Unified Messaging**](#gt_97a6a212-81ff-418f-b437-15260399b357) password to the mailbox user after a successful **ResetPIN** operation.

# Change Tracking

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

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

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

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

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

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

| Section | Description | Revision class |
| --- | --- | --- |
| [8](#Section_7318618b361a40d6ba2f99608752d20c) Appendix C: Product Behavior | Updated list of supported products. | major |

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