

[MS-OXWUMS]: Voice Mail Settings Web Service Protocol Specification

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Revision Summary			
Author	Date	Version	Comments
Microsoft Corporation	April 4, 2008	0.1	Initial Availability.
Microsoft Corporation	June 27, 2008	1.0	Initial Release.
Microsoft Corporation	August 6, 2008	1.01	Revised and edited technical content.
Microsoft Corporation	September 3, 2008	1.02	Updated references.
Microsoft Corporation	December 3, 2008	1.03	Revised and edited technical content.
Microsoft Corporation	March 4, 2009	1.04	Revised and edited technical content.
Microsoft Corporation	April 10, 2009	2.0	Updated technical content and applicable product releases.

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1 Introduction

The Voice Mail Settings Web service 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.

1.1 Glossary

The following terms are defined in [MS-OXGLOS]:

- EntryID**
- Out of Office (OOO)**
- Simple Mail Transfer Protocol (SMTP)**
- SOAP body**
- SOAP fault**
- SOAP header**
- SOAP message**
- Uniform Resource Locator (URL)**
- voice message**
- Web Services Description Language (WSDL)**
- WSDL message**
- WSDL port type**
- XML**
- XML namespace**

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

1.2 References

1.2.1 Normative References

[MS-OXGLOS] Microsoft Corporation, "Exchange Server Protocols Master Glossary", June 2008.

[MS-OXOUM] Microsoft Corporation, "Voice Mail and Fax Objects Protocol Specification", June 2008.

[RFC2045] Freed, N., et al., "Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies", RFC 2045, November 1996, <http://www.ietf.org/rfc/rfc2045.txt>.

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

[RFC2396] Berners-Lee, T., Fielding, R., and Masinter, L., "Uniform Resource Identifiers (URI): Generic Syntax", RFC 2396, August 1998, <http://www.ietf.org/rfc/rfc2396.txt>.

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

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

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", RFC 3066, January 2001, <http://www.ietf.org/rfc/rfc3066.txt>.

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

[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>.

[XML10] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Third Edition)", February 2004, <http://www.w3.org/TR/2004/REC-xml-20040204/>.

[XMLINFOSET] World Wide Web Consortium, "XML Information Set (Second Edition)", February 2004, <http://www.w3.org/TR/2004/REC-xml-infoset-20040204>.

[XMLNS] World Wide Web Consortium, "Namespaces in XML 1.0 (Second Edition)", August 2006, <http://www.w3.org/TR/REC-xml-names/>.

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

[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/>.

1.2.2 Informative References

[MSDN-UMWSR] Microsoft Corporation, "Unified Messaging Web Service Reference", <http://go.microsoft.com/fwlink/?LinkId=112217>.

1.3 Protocol Overview

The Voice Mail Settings Web service provides an extensibility point that enables clients to read and change information about Unified Messaging properties, play voice mail, or record greetings over the telephone. Clients use the SOAP protocol to contact the Voice Mail Settings Web service.

This specification describes the requests and responses for the Voice Mail Settings Web service methods.

1.4 Relationship to Other Protocols

The Voice Mail Settings Web service uses SOAP [SOAP1.1] over HTTPS [RFC2818], as shown in Figure 1.

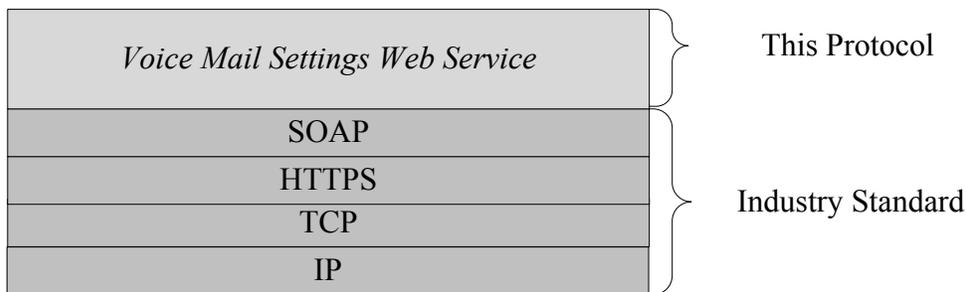


Figure 1: Layering diagram

1.5 Prerequisites/Preconditions

None.

1.6 Applicability Statement

None.

1.7 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** version.

- **Security and Authentication methods:** The Voice Mail Settings Web service relies on the Web server that hosts the application to perform authentication.
- **Localization:** This protocol includes text strings in various languages for **SOAP fault** responses. The SOAP Fault **detail** element (section 2.2.8.1) contains a culture-independent error string that allows the client to localize error messages in a different language.
- **Capability Negotiation:** This protocol does not support capability negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

Messages are transported by using SOAP version 1.1. For more details, see [SOAP1.1].

Security model: The Voice Mail Settings Web service relies on the Web server that hosts the application to perform authentication. The protocol SHOULD use secure communication via HTTPS, as defined in [RFC2818].

2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses **XML schema**, as defined in [XMLSCHEMA1] and [XMLSCHEMA2], and **Web Services Description Language** as defined in [WSDL].

2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	[MS-OXWUMS]

Prefix	Namespace URI	Reference
tns	http://schemas.microsoft.com/exchange/services/2006/messages	[MS-OXWUMS]
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
soap	http://schemas.xmlsoap.org/wsdl/soap/	[WSDL]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
t	http://schemas.microsoft.com/exchange/services/2006/types	[MS-OXWUMS]
m	http://schemas.microsoft.com/exchange/services/2006/messages	[MS-OXWUMS]

2.2.2 Simple Types

2.2.2.1 t:ExchangeVersionType

The **ExchangeVersionType** specifies the server version.

```
<xs:simpleType name="ExchangeVersionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Exchange2010" />
  </xs:restriction>
</xs:simpleType>
```

Value	Description
Exchange2010	Represents a request against the Exchange2010 schema version.

2.2.2.2 t:NonEmptyStringType

The **NonEmptyStringType** type specifies a string with a minimum length of one character.

```
<xs:simpleType name="NonEmptyStringType">
  <xs:restriction base="xs:string">
    <xs:minLength value="1" />
  </xs:restriction>
</xs:simpleType>
```

2.2.2.3 t:ResponseClassType

The **ResponseClassType** type specifies the status states of a response.

```
<xs:simpleType name="ResponseClassType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Success" />
    <xs:enumeration value="Warning" />
    <xs:enumeration value="Error" />
  </xs:restriction>
</xs:simpleType>
```

Value	Description
Success	Specifies that the request was successfully processed.
Warning	Specifies that an unusual situation was encountered during the processing of the request and the request might not have been processed successfully.
Error	Specifies that the request could not be processed.

2.2.2.4 m: ResponseCodeType

The **ResponseCodeType** specifies the response codes that are returned in a response.

```
<xs:simpleType name="ResponseCodeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NoError"/>
    <xs:enumeration value="ErrorAccessDenied"/>
    <xs:enumeration value="ErrorAccountDisabled"/>
    <xs:enumeration value="ErrorADOperation"/>
    <xs:enumeration value="ErrorADSessionFilter"/>
    <xs:enumeration value="ErrorADUnavailable"/>
    <xs:enumeration value="ErrorImpersonateUserDenied"/>
    <xs:enumeration value="ErrorImpersonationDenied"/>
    <xs:enumeration value="ErrorImpersonationFailed"/>
    <xs:enumeration value="ErrorIncorrectSchemaVersion"/>
    <xs:enumeration value="ErrorInsufficientResources"/>
    <xs:enumeration value="ErrorInternalServerError"/>
    <xs:enumeration value="ErrorInternalServerErrorTransientError"/>
    <xs:enumeration value="ErrorInvalidArgument"/>
    <xs:enumeration value="ErrorInvalidOperation"/>
    <xs:enumeration value="ErrorInvalidRequest"/>
    <xs:enumeration value="ErrorInvalidRoutingType"/>
    <xs:enumeration value="ErrorInvalidServerVersion"/>
    <xs:enumeration value="ErrorMailboxMoveInProgress"/>
    <xs:enumeration value="ErrorMailboxStoreUnavailable"/>
    <xs:enumeration value="ErrorNotEnoughMemory"/>
  </xs:restriction>
</xs:simpleType>
```

```

    <xs:enumeration value="ErrorSchemaValidation"/>
    <xs:enumeration value="ErrorServerBusy"/>
    <xs:enumeration value="ErrorUnsupportedCulture"/>
    <xs:enumeration value="ErrorUnifiedMessagingRequestFailed"/>
  </xs:restriction>
</xs:simpleType>

```

Value	Description
NoError	Specifies that no errors occurred.
ErrorAccessDenied	Specifies that the calling account does not have the rights to perform the requested action.
ErrorAccountDisabled	Specifies that the account in question has been disabled.
ErrorADOperation	Specifies that the operation failed because of communication problems with Active Directory.
ErrorADUnavailable	Specifies that Active Directory is unavailable.
ErrorImpersonateUserDenied	Specifies that the calling account does not have impersonation rights on either the user or contact that it is trying to impersonate or the mailbox database that contains the user mailbox. This response code is returned within a SOAP fault.
ErrorImpersonationDenied	Specifies that the calling account does not have the impersonation right on the server that it is calling. This response code is returned within a SOAP fault.
ErrorImpersonationFailed	Specifies that there was an unexpected error when an attempt was made to perform impersonation. This response code specifies either that the service account that is running the service application pool is configured incorrectly, that the

Value	Description
	service cannot talk to the directory, or that a trust between forests is not correctly configured.
ErrorIncorrectSchemaVersion	Specifies that the request was valid for the current server version but was invalid for the request server version that was specified.
ErrorInsufficientResources	Specifies that the mailbox server is overloaded. Try your request again later.
ErrorInternalServerError	Specifies that the server encountered an error that it could not recover from, and no more specific response code is associated with the error that occurred.
ErrorInternalServerTransientError	Specifies that an internal server error occurred and that you should try your request again later.
ErrorInvalidArgument	Specifies an error related to the ActingAs element. This error can occur if the ActingAs element is missing, does not include a routing type, does not include an email address, contains an invalid email address, does not resolve to a user in Active Directory, or resolves to multiple users in Active Directory.
ErrorInvalidOperation	Specifies a general error that is used when the requested operation is invalid.
ErrorInvalidRequest	Specifies that the SOAP request has a SOAP action header, but nothing in the SOAP body.
ErrorInvalidRoutingType	Specifies that the RoutingType property that was passed for an EmailAddressType is not a valid

Value	Description
	routing type.
ErrorInvalidServerVersion	Specifies that an invalid request server version was specified in the request.
ErrorMailboxMoveInProgress	Specifies that the mailbox is currently being moved. Try your request again after the move is complete.
ErrorMailboxStoreUnavailable	Specifies that the mailbox database is offline, corrupt, shutting down, or exhibiting other conditions that make the mailbox unavailable.
ErrorNotEnoughMemory	Specifies that the operation could not be completed because of insufficient memory.
ErrorSchemaValidation	Specifies when the incoming request fails schema validation. This response code is always returned within a SOAP fault.
ErrorServerBusy	Specifies when the server is busy.
ErrorUnsupportedCulture	Specifies if you try to set the Culture property to an unsupported culture.
ErrorUnifiedMessagingRequestFailed	Specifies if a Unified Messaging request failed.

2.2.3 Complex Types

2.2.3.1 m: BaseRequestType

The **BaseRequestType** type specifies the base type for request messages.

```
<xs:complexType name="BaseRequestType" abstract="true"/>
```

2.2.3.2 t:ConnectingSIDType

The **ConnectingSIDType** type specifies the account to impersonate by using Exchange Impersonation.

```
<xs:complexType name="ConnectingSIDType">
  <xs:choice>
    <xs:element name="PrincipalName" type="t:NonEmptyStringType"/>
    <xs:element name="SID" type="t:NonEmptyStringType"/>
    <xs:element name="PrimarySmtpAddress" type="t:NonEmptyStringType"/>
    <xs:element name="SmtpAddress" type="t:NonEmptyStringType"/>
  </xs:choice>
</xs:complexType>
```

Element	Type	Definition
PrincipalName	t:NonEmptyStringType	Specifies the mailbox by user principal name (UPN). The SID , PrimarySmtpAddress , and SmtpAddress elements cannot be used if the PrincipalName element is used. the mailbox identification mechanism for Exchange Impersonation.
SID	t:NonEmptyStringType	Specifies the mailbox by security identifier. The PrincipalName , PrimarySmtpAddress , and SmtpAddress elements cannot be used if the SID element is used.
PrimarySmtpAddress	t:NonEmptyStringType	Specifies the mailbox by primary SMTP address. The SID , PrincipalName , and SmtpAddress elements cannot be used if the PrimarySmtpAddress element is used.

SmtpAddress	t:NonEmptyStringType	Specifies the mailbox by SMTP address. The SID , PrimarySmtpAddress , and PrincipalName elements cannot be used if the SmtpAddress element is used.
-------------	----------------------	---

2.2.3.3 t:ExchangeImpersonationType

The **ExchangeImpersonationType** type specifies the account to impersonate by using Exchange Impersonation.

```
<xs:complexType name="ExchangeImpersonationType">
  <xs:sequence>
    <xs:element name="ConnectingSID" type="t:ConnectingSIDType" />
  </xs:sequence>
  <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/">
  </xs:anyAttribute>
</xs:complexType>
```

Element	Type	Definition
ConnectingSID	t:ConnectingSIDType	Specifies the mailbox identification mechanism for Exchange Impersonation.

2.2.3.4 t:MailboxCultureType

The **MailboxCultureType** type specifies the mailbox language. Values are defined in [RFC3066]. This is used in the **SOAP header**. This type extends the **xs:language** type found in [XMLSCHEMA2].

```
<xs:complexType name="MailboxCultureType">
  <xs:simpleContent>
    <xs:extension base="xs:language">
      <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/">
      </xs:anyAttribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

```

    </xs:simpleContent>
</xs:complexType>

```

2.2.3.5 t:PhoneCallIdType

The **PhoneCallIdType** type specifies the phone call identifier.

```

<xs:complexType name="PhoneCallIdType">
  <xs:attribute name="Id" type="xs:string" use="required"/>
</xs:complexType>

```

2.2.3.6 m: ResponseMessageType

The **ResponseMessageType** type specifies the base type for response messages.

```

<xs:complexType name="ResponseMessageType">
  <xs:sequence minOccurs="0">
    <xs:element name="MessageText" type="xs:string" minOccurs="0"/>
    <xs:element name="ResponseCode" type="m:ResponseCodeType"
minOccurs="0"/>
    <xs:element name="DescriptiveLinkKey" type="xs:int"
minOccurs="0"/>
    <xs:element name="MessageXml" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:any processContents="lax" minOccurs="0"
maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="ResponseClass" type="t:ResponseClassType"
use="required"/>
</xs:complexType>

```

Element	Type	Definition
MessageText	xs:string	Specifies the status of the response. The following values are valid for this attribute: <ul style="list-style-type: none"> • Success • Warning • Error

Element	Type	Definition
ResponseCode	m:ResponseCodeType	Specifies an error code that identifies the specific error that the request encountered. Can be present.
DescriptiveLinkKey	xs:int	Currently unused, and is reserved for future use. It contains a value of 0 (zero).
MessageXml	Complex type defined above.	Provides additional error response information. Can be present.

Attribute	Type	Definition
ResponseClass	t:ResponseClassType	Specifies the status states of a response.

2.2.4 Elements

The operations defined in section 3.1.4 might return a **SOAP fault** element. A SOAP fault element is used to carry error and/or status information within a **SOAP message** when there is an API misuse or where there are configuration failures.

The SOAP fault element defines the four sub-elements that are listed in the following table.

SOAP fault sub-element	Definition
faultstring	Provides a human readable explanation of the fault and is not intended for algorithmic processing.

SOAP fault sub-element	Definition
faultcode	Provides an algorithmic mechanism for identifying the fault. The Voice Mail Settings Web service always returns the soap:Server value.
faultactor	Provides information about who caused the fault to happen within the message path. This will always contain the Voice Mail Settings Web service URL .
detail	Carries implementation-specific error information related to the SOAP body element.

2.2.4.1 t:ExchangeImpersonation

The **ExchangeImpersonation** element specifies the mailbox to impersonate.

```
<xs:element name="ExchangeImpersonation"
type="t:ExchangeImpersonationType" />
```

2.2.4.2 t:MailboxCulture

The **MailboxCulture** element specifies the culture to use for accessing the mailbox.

```
<xs:element name="MailboxCulture" type="t:MailboxCultureType"/>
```

2.2.4.3 t:RequestServerVersion

The **RequestServerVersion** element specifies the server version to target.

```
<xs:element name="RequestServerVersion">
  <xs:complexType>
    <xs:attribute name="Version" type="t:ExchangeVersionType"
fixed="Exchange2010" use="required"/>
    <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/">
  </xs:anyAttribute>
</xs:complexType>
</xs:element>
```

2.2.4.4 t:ServerVersionInfo

The **ServerVersion** element specifies the server version for the response.

```
<xs:element name="ServerVersionInfo">
```

```

<xs:complexType>
  <xs:attribute name="MajorVersion" type="xs:int" use="optional"/>
  <xs:attribute name="MinorVersion" type="xs:int" use="optional"/>
  <xs:attribute name="MajorBuildNumber" type="xs:int"
use="optional"/>
  <xs:attribute name="MinorBuildNumber" type="xs:int"
use="optional"/>
  <xs:attribute name="Version" type="xs:string" use="optional"/>
</xs:complexType>
</xs:element>

```

Attribute	Type	Definition
MajorVersion	xs:int	Specifies the major server version. This attribute MUST be present in all responses.
MinorVersion	xs:int	Specifies the minor server version. This attribute MUST be present in all responses.
MajorBuildNumber	xs:int	Specifies the major server build number. This attribute MUST be present in all responses.
MinorBuildNumber	xs:int	Specifies the minor server build number. This attribute MUST be present in all responses.
Version	xs:string	Specifies the server version. This attribute MUST be present.

2.2.5 Attributes

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

2.2.6 Groups

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

2.2.7 Attribute Groups

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

2.2.8 Messages

Message	Description
SOAP fault	The operations defined in section 3.1.4 might return a SOAP fault . A SOAP fault element is used to carry error and/or status information within a SOAP message when there is API misuse or where there are configuration failures.

3 Protocol Details

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

3.1 *UMWebServiceSoap Server Details*

3.1.1 Abstract Data Model

The Voice Mail Settings Web service is a stateless protocol.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

Operation	Description
Disconnect	Disconnects a call.
DisconnectPhoneCall	Disconnects a call.
GetCallInfo	Returns information about a call.
GetPhoneCallInformation	Returns information about a call.

Operation	Description
GetServiceConfiguration	Returns configuration information about the Voice Mail Settings service.
GetUMProperties	Returns a list of Unified Messaging properties.
IsUMEnabled	Returns a value that indicates whether the user making the request is enabled for Unified Messaging.
PlayOnPhone2	Makes an outbound call and plays a voice message over the telephone.
PlayOnPhone	Makes an outbound call and plays a voice message over the telephone.
PlayOnPhoneGreeting	Makes an outbound call to play and record a greeting over the telephone.
ResetPIN	Creates a new password for the user who is making the request.
SetMissedCallNotificationEnabled	Sets a value that indicates whether missed call notifications are enabled for the user making the request.
SetOofStatus	Sets a value that indicates whether the Out of Office greeting is enabled for the user making the request.
SetPlayOnPhoneDialString	Sets the default telephone number used in PlayOnPhone and PlayOnPhoneGreeting requests.
SetTelephoneAccessFolderEmail	Sets the mailbox folder from which the Unified Messaging server will read back to the user over the telephone.

3.1.4.1 DisconnectPhoneCall Operation

This operation is used to disconnect a call.<1>

```
<wsdl:operation name="DisconnectPhoneCall">
  <wsdl:input message="tns:DisconnectPhoneCallSoapIn" />
  <wsdl:output message="tns:DisconnectPhoneCallSoapOut" />
</wsdl:operation>
```

3.1.4.1.1 Complex Types

The following XML schema complex type definitions are specific to this operation.

3.1.4.1.1.1 m:DisconnectPhoneCallResponseMessageType

The **DisconnectPhoneCallResponseMessageType** type specifies a response to disconnect a call. The **DisconnectPhoneCallResponseMessageType** type extends the **ResponseMessageType** type.

```
<xs:complexType name="DisconnectPhoneCallResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.1.1.2 m:DisconnectPhoneCallType

The **DisconnectPhoneCallType** type specifies a request to disconnect a call. The **DisconnectPhoneCallType** type extends the **BaseRequestType**.

```
<xs:complexType name="DisconnectPhoneCallType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="PhoneCallId"
type="t:PhoneCallIdType" minOccurs="1" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
PhoneCallId	t:PhoneCallIdType	Specifies the identifier of the phone call to disconnect. This element MUST occur only once.

3.1.4.1.2 Elements

3.1.4.1.2.1 m:DisconnectPhoneCall

The **DisconnectPhoneCall** element specifies a request to disconnect a call.

```
<xs:element name="DisconnectPhoneCall"
type="m:DisconnectPhoneCallType"/>
```

3.1.4.1.2.2 m:DisconnectPhoneCallResponse

The **DisconnectPhoneCallResponse** element specifies a response to disconnect a call.

```
<xs:element name="DisconnectPhoneCallResponse"
type="m:DisconnectPhoneCallResponseMessageType"/>
```

3.1.4.1.3 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.1.3.1 DisconnectPhoneCallSoapIn Message

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

Parts for the **DisconnectPhoneCallSoapIn** message are listed in the following table.

Part	Element/Type	Description
request	tns:DisconnectPhoneCall	Specifies the request.
Impersonation	t:ExchangeImpersonation	Specifies Exchange Impersonation information.
MailboxCulture	t:MailboxCulture	Specifies the culture to use for accessing the mailbox . The cultures are defined by [RFC3066].
RequestVersion	t:RequestServerVersion	Specifies the schema version for the DisconnectPhoneCall request.

```
<wsdl:message name="DisconnectPhoneCallSoapIn">
```

```

        <wsdl:part name="request" element="tns:DisconnectPhoneCall"/>
        <wsdl:part name="Impersonation"
element="t:ExchangeImpersonation"/>
        <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
        <wsdl:part name="RequestVersion"
element="t:RequestServerVersion"/>
</wsdl:message>

```

3.1.4.1.3.2 DisconnectPhoneCallSoapOut Message

The **DisconnectPhoneCallSoapOut** WSDL message specifies the **DisconnectPhoneCall** response.

Parts for the **DisconnectPhoneCallSoapOut** message are listed in the following table.

Part	Element/Type	Description
DisconnectPhoneCallResult	tns:DisconnectPhoneCallResponse	Specifies the response.
ServerVersion	t:ServerVersionInfo	Specifies the server version for the response.

```

<wsdl:message name="DisconnectPhoneCallSoapOut">
  <wsdl:part name="DisconnectPhoneCallResult"
element="tns:DisconnectPhoneCallResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>

```

3.1.4.2 Disconnect Operation

This operation is used to disconnect a call. If the operation succeeds, a **DisconnectResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```

<wsdl:operation name="Disconnect">
  <wsdl:input message="tns:DisconnectSoapIn" />
  <wsdl:output message="tns:DisconnectSoapOut" />
</wsdl:operation>

```

```

<wsdl:message name="DisconnectSoapIn">
  <wsdl:part name="parameters" element="tns:Disconnect" />
</wsdl:message>

<wsdl:message name="DisconnectSoapOut">
  <wsdl:part name="parameters" element="tns:DisconnectResponse" />
</wsdl:message>

```

3.1.4.2.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.2.1.1 Disconnect Element

Defines a request to disconnect a phone call.

```

<s:element name="Disconnect">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="CallId"
type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>

```

Element	Type	Definition
CallId	s:string	<p>The identifier of the call to disconnect. This identifier is returned as part of the PlayOnPhone or PlayOnPhoneGreeting operations (sections 3.1.4.5 and 3.1.4.6).</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>

3.1.4.2.1.2 DisconnectResponse Element

Defines a response to a **Disconnect** request.

```

<s:element name="DisconnectResponse">
  <s:complexType />
</s:element>

```

3.1.4.2.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.2.2.1 DisconnectSoapIn Message

Parameters for the **DisconnectSoapIn** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:Disconnect	This part contains the information required to disconnect a phone call.

3.1.4.2.2.2 DisconnectSoapOut Message

Parameters for the **DisconnectSoapOut** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:DisconnectResponse	Response to a Disconnect request.

3.1.4.3 GetCallInfo Operation

This operation is used to return information about a call. If the operation succeeds, a **GetCallInfoResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="GetCallInfo">
  <wsdl:input message="tns:GetCallInfoSoapIn" />
  <wsdl:output message="tns:GetCallInfoSoapOut" />
</wsdl:operation>

<wsdl:message name="GetCallInfoSoapIn">
  <wsdl:part name="parameters" element="tns:GetCallInfo" />
</wsdl:message>

<wsdl:message name="GetCallInfoSoapOut">
  <wsdl:part name="parameters" element="tns:GetCallInfoResponse" />
</wsdl:message>
```

3.1.4.3.1 Simple Types

The following **XML Schema** simple definitions are specific to this operation.

3.1.4.3.1.1 UMCallState Simple Type

Indicates the current state of a phone call.

```
<s:simpleType name="UMCallState">
  <s:restriction base="s:string">
    <s:enumeration value="Idle" />
    <s:enumeration value="Connecting" />
    <s:enumeration value="Alerted" />
    <s:enumeration value="Connected" />
    <s:enumeration value="Disconnected" />
    <s:enumeration value="Incoming" />
    <s:enumeration value="Transferring" />
    <s:enumeration value="Forwarding" />
  </s:restriction>
</s:simpleType>
```

Value	Description
Idle	Initial call state.
Connecting	The system is dialing this call.
Alerted	The call is in alerting state (phone is ringing).
Connected	The call is in the connected state.
Disconnected	The call is disconnected.
Incoming	The call is inbound.
Transferring	The call is being transferred to another destination.
Forwarding	The call is being forwarded to another destination.

3.1.4.3.1.2 UMEventCause Simple Type

Indicates the disconnect reason of a phone call.

```
<s:simpleType name="UMEventCause">
  <s:restriction base="s:string">
    <s:enumeration value="None" />
    <s:enumeration value="UserBusy" />
    <s:enumeration value="NoAnswer" />
  </s:restriction>
</s:simpleType>
```

```

    <s:enumeration value="Unavailable" />
    <s:enumeration value="Other" />
  </s:restriction>
</s:simpleType>

```

Value	Description
None	Call state is not disconnected or disconnect reason is not known.
UserBusy	The called party line was busy.
NoAnswer	The called party did not answer.
Unavailable	The called party number was not available.
Other	Catch-all for other disconnect reasons.

3.1.4.3.2 Complex Types

The following **XML Schema** complex type definitions are specific to this operation.

3.1.4.3.2.1 UMCallInfo Complex Type

```

<s:complexType name="UMCallInfo">
  <s:sequence>
    <s:element minOccurs="1" maxOccurs="1" name="CallState"
type="tns:UMCallState" />
    <s:element minOccurs="1" maxOccurs="1" name="EventCause"
type="tns:UMEventCause" />
  </s:sequence>
</s:complexType>

```

Element	Type	Definition
CallState	tns:UMCallState	Contains a value that indicates the status of a call for which the GetCallInfo operation requested information. MUST be present.

Element	Type	Definition
EventCause	tns:UMEventCause	Contains a value that indicates the cause of an event for a call for which the GetCallInfo operation requested information. MUST be present.

3.1.4.3.3 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.3.3.1 GetCallInfo Element

Defines a request to get information about a call.

```

<s:element name="GetCallInfo">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="CallId"
type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>

```

Element	Type	Definition
CallId	s:string	The identifier of the call for which to request information. This identifier is returned as part of the PlayOnPhone or PlayOnPhoneGreeting operations (sections 3.1.4.5 and 3.1.4.6). If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.3.3.2 GetCallInfoResponse Element

Defines a response to a **GetCallInfo** request.

```

<s:element name="GetCallInfoResponse">
  <s:complexType>

```

```

    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1"
name="GetCallInfoResponse" type="tns:UMCallInfo" />
    </s:sequence>
  </s:complexType>
</s:element>

```

Element	Type	Definition
GetCallInfoResponse	tns:UMCallInfo	Contains information about a call. See the UMCallInfo complex type for more information (section 3.1.4.2.2.1) If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.3.4 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.3.4.1 GetCallInfoSoapIn Message

Parameters for the **GetCallInfoSoapIn** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:GetCallInfo	This part contains the data required to get information about a phone call.

3.1.4.3.4.2 GetCallInfoSoapOut Message

Parameters for the **GetCallInfoSoapOut** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:GetCallInfoResponse	Response to a GetCallInfo request.

3.1.4.4 GetPhoneCallInformation Operation

This operation is used to get information about a phone call.<2>

```
<wsdl:operation name="GetPhoneCallInformation">
  <wsdl:input message="tns:GetPhoneCallInformationSoapIn" />
  <wsdl:output message="tns:GetPhoneCallInformationSoapOut" />
</wsdl:operation>
```

3.1.4.4.1 *Simples Types*

The following XML schema simple type definitions are specific to this operation.

3.1.4.4.1.1 t:ConnectionFailureCauseType

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

```
<xs:simpleType name="ConnectionFailureCauseType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="UserBusy"/>
    <xs:enumeration value="NoAnswer"/>
    <xs:enumeration value="Unavailable"/>
    <xs:enumeration value="Other"/>
  </xs:restriction>
</xs:simpleType>
```

Value	Description
None	Call state is not disconnected or disconnect reason is not known.
UserBusy	The called party line was busy.
NoAnswer	The called party did not answer.
Unavailable	The called party number was not available.
Other	Catch-all for other disconnect reasons.

3.1.4.4.1.2 t:PhoneCallStateType

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

```
<xs:simpleType name="PhoneCallStateType">
  <xs:restriction base="xs:string">
```

```

    <xs:enumeration value="Idle"/>
    <xs:enumeration value="Connecting"/>
    <xs:enumeration value="Alerted"/>
    <xs:enumeration value="Connected"/>
    <xs:enumeration value="Disconnected"/>
    <xs:enumeration value="Incoming"/>
    <xs:enumeration value="Transferring"/>
    <xs:enumeration value="Forwarding"/>
  </xs:restriction>
</xs:simpleType>

```

Value	Description
Idle	Initial call state.
Connecting	The system is dialing this call.
Alerted	The call is in alerting state (phone is ringing).
Connected	The call is in the connected state.
Disconnected	The call is disconnected.
Incoming	The call is inbound.
Transferring	The call is being transferred to another destination.
Forwarding	The call is being forwarded to another destination.

3.1.4.4.2 *Complex Types*

The following **XML schema** complex type definitions are specific to this operation.

3.1.4.4.2.1 **m:GetPhoneCallInformationType**

The **GetPhoneCallInformationType** type specifies a request to get telephone call information.

```

<xs:complexType name="GetPhoneCallInformationType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">

```

```

        <xs:sequence>
            <xs:element name="PhoneCallId" type="t:PhoneCallIdType"
minOccurs="1" maxOccurs="1"/>
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>

```

Element	Type	Definition
PhoneCallId	t:PhoneCallIdType	Specifies the identifier of the telephone call to disconnect. This element MUST occur only once.

3.1.4.4.2.2 m:GetPhoneCallInformationResponseMessageType

The **GetPhoneCallInformationResponseMessageType** type specifies a response to get telephone call information.

```

<xs:complexType name="GetPhoneCallInformationResponseMessageType">
    <xs:complexContent>
        <xs:extension base="m:ResponseMessageType">
            <xs:sequence>
                <xs:element name="PhoneCallInformation"
type="t:PhoneCallInformationType" minOccurs="0" maxOccurs="1"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

Element	Type	Definition
PhoneCallInformation	t:PhoneCallInformationType	Specifies the state information for a phone call.

3.1.4.4.2.3 t:PhoneCallInformationType

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

```

<xs:complexType name="PhoneCallInformationType">
    <xs:sequence>
        <xs:element name="PhoneCallState" type="t:PhoneCallStateType"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="ConnectionFailureCause"
type="t:ConnectionFailureCauseType" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>

```

```

    <xs:element name="SIPResponseText" type="xs:string" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="SIPResponseCode" type="xs:int" minOccurs="0"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>

```

Element	Type	Definition
PhoneCallState	t:PhoneCallStateType	Specifies the state for a telephone call. This element MUST occur.
ConnectionFailureCause	t:ConnectionFailureCauseType	Specifies the cause of a connection failure. This element MUST occur.
SIPResponseText	xs:string	Specifies the SIP response text.
SIPResponseCode	xs:int	Specifies the SIP response code.

3.1.4.4.3 Elements

The following **XML schema** element definitions are specific to this operation.

3.1.4.4.3.1 m:GetPhoneCallInformation

The **GetPhoneCallInformation** element specifies a request to get telephone call information.

```

<xs:element name="GetPhoneCallInformation"
type="m:GetPhoneCallInformationType"/>

```

3.1.4.4.3.2 m:GetPhoneCallInformationResponse

The **GetPhoneCallInformationResponse** element specifies a response to get telephone call information.

```

<xs:element name="GetPhoneCallInformationResponse"
type="m:GetPhoneCallInformationResponseMessageType"/>

```

3.1.4.4.4 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.4.4.1 GetPhoneCallInformationSoapIn

The **GetPhoneCallInformationSoapIn** WSDL message specifies the **GetPhoneCallInformation** request.

Parts for the **GetPhoneCallInformationSoapIn** message are listed in the following table.

Part	Element/Type	Description
request	tns:GetPhoneCallInformation	Specifies the request.
Impersonation	t:ExchangeImpersonation	Specifies Exchange Impersonation information.
MailboxCulture	t:MailboxCulture	Specifies the culture to use for accessing the mailbox . The cultures are defined by [RFC3066].
RequestVersion	t:RequestServerVersion	Specifies the schema version for the GetPhoneCallInformation request.

```
<wsdl:message name="GetPhoneCallInformationSoapIn">
  <wsdl:part name="request" element="tns:GetPhoneCallInformation"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

3.1.4.4.2 GetPhoneCallInformationSoapOut

The **GetPhoneCallInformationSoapOut** WSDL message specifies the **GetPhoneCallInformation** response.

Parts for the **GetPhoneCallInformationSoapOut** message are listed in the following table.

Part	Element/Type	Description
GetPhoneCallInformationResult	tns:GetPhoneCallInformationResponse	Specifies the response.

ServerVersion	t:ServerVersionInfo	Specifies the server version for the response.
---------------	---------------------	--

```
<wsdl:message name="GetPhoneCallInformationSoapOut">
  <wsdl:part name="GetPhoneCallInformationResult"
  element="tns:GetPhoneCallInformationResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

3.1.4.5 GetServiceConfiguration Operation

The **GetServiceConfiguration** operation gets the Unified Messaging service configuration for a mailbox.<3>

```
<wsdl:operation name="GetServiceConfiguration">
  <wsdl:input message="tns:GetServiceConfigurationSoapIn" />
  <wsdl:output message="tns:GetServiceConfigurationSoapOut" />
</wsdl:operation>
```

3.1.4.5.1 Symple Types

3.1.4.5.1.1 t:ServiceConfigurationType

The **ServiceConfigurationType** specifies the service configurations that are returned in the response.

```
<xs:simpleType name="ServiceConfigurationType">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="UnifiedMessagingConfiguration" />
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

Value	Description
UnifiedMessagingConfiguration	Represents the Unified Messaging service configuration.

3.1.4.5.2 ComplexType

3.1.4.5.2.1 m:ArrayOfServiceConfigurationResponseMessageType

The **ArrayOfServiceConfigurationResponseType** type specifies an array of Unified Messaging service configuration response messages.

```
<xs:complexType name="ArrayOfServiceConfigurationResponseType">
  <xs:sequence>
    <xs:element name="ServiceConfigurationResponseType"
      type="m:ServiceConfigurationResponseType"
      minOccurs="1" maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
```

Element	Type	Definition
ServiceConfigurationResponse MessageType	m:ServiceConfigurationResp onseMessageType	Contains a service configuration response message. This element MUST occur at least once and can occur two or more times.

3.1.4.5.2.2 m:ArrayOfServiceConfigurationType

The **ArrayOfServiceConfigurationType** type specifies the requested service configurations for a **GetServiceConfigurationSoapIn** message.

```
<xs:complexType name="ArrayOfServiceConfigurationType">
  <xs:choice minOccurs="1" maxOccurs="unbounded">
    <xs:element name="ConfigurationName"
      type="t:ServiceConfigurationType"/>
  </xs:choice>
</xs:complexType>
```

Element	Type	Definition
ConfigurationName	t:ServiceConfigurationType	Specifies the service configuration that is returned in the response. This element MUST occur at least once.

3.1.4.5.2.3 t:BaseEmailAddressType

The **BaseEmailAddressType** type specifies the base type for the **EmailAddressType** type.

```
<xs:complexType name="BaseEmailAddressType" />
```

3.1.4.5.2.4 t:EmailAddressType

The **EmailAddressType** type specifies the identity of the sender or recipient actor of the request. The **EmailAddressType** type extends the **BaseEmailAddressType**.

```
<xs:complexType name="EmailAddressType">
  <xs:complexContent>
    <xs:extension base="t:BaseEmailAddressType">
      <xs:sequence>
        <xs:element name="EmailAddress" type="t:NonEmptyStringType"
minOccurs="0"/>
        <xs:element name="RoutingType" type="t:NonEmptyStringType"
minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
EmailAddress	NonEmptyStringType	Specifies the SMTP address of the requested user's configuration information.

Element	Type	Definition
RoutingType	NonEmptyStringType	Specifies the routing type for the e-mail address.

3.1.4.5.2.5 m:GetServiceConfigurationResponseMessageType

The **GetServiceConfigurationResponseMessageType** type contains the response message for a **GetServiceConfiguration** operation. The **GetServiceConfigurationResponseMessageType** type extends the **ResponseMessageType**.

```
<xs:complexType name="GetServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="ResponseMessages"
type="m:ArrayOfServiceConfigurationResponseMessageType" minOccurs="0"
maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
ResponseMessages	m:ArrayOfServiceConfigurationResponseMessageType	Contains an array of service configuration response messages. This element MUST occur if there are configuration settings.

3.1.4.5.2.6 m:GetServiceConfigurationType

The **GetServiceConfigurationType** type specifies the requested service configurations and identifies the sender or recipient actor who is making the request. The recipient actor can be different from the user who authenticated with the server. The **GetServiceConfigurationType** type extends the **BaseRequestType** type.

```
<xs:complexType name="GetServiceConfigurationType">
```

```

<xs:complexContent>
  <xs:extension base="m:BaseRequestType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ActingAs"
type="t:EmailAddressType"/>
      <xs:element minOccurs="1" maxOccurs="1"
name="RequestedConfiguration"
type="m:ArrayOfServiceConfigurationType"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

Element	Type	Definition
ActingAs	t:EmailAddressType	<p>Specifies who the caller is sending as. If this element is not present, the authenticated user is assumed to be the sender.</p> <p>The ActingAs element MUST occur.</p> <p>This element is optional.</p>
RequestedConfiguration	m:ArrayOfServiceConfigurationType	<p>Specifies the requested service configurations. This element MUST be present.</p>

3.1.4.5.2.7 t:ServiceConfiguration

The **ServiceConfiguration** type is the base class for service configuration type information.

```
<xs:complexType name="ServiceConfiguration"/>
```

3.1.4.5.2.8 m:ServiceConfigurationResponseMessageType

The **ServiceConfigurationResponseMessageType** type specifies service configuration settings. The **ServiceConfigurationResponseMessageType** type extends the **ResponseMessageType**.

```
<xs:complexType name="ServiceConfigurationResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="UnifiedMessagingConfiguration"
          type="t:UnifiedMessageServiceConfiguration" minOccurs="0"
          maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
UnifiedMessagingConfiguration	t:UnifiedMessageServiceConfiguration	Contains service configuration for the Unified Messaging service. This element MUST occur for Unified Messaging configuration.

3.1.4.5.2.9 t:UnifiedMessageServiceConfiguration

The **UnifiedMessageServiceConfiguration** type specifies the configuration for Unified Messaging service. The **UnifiedMessageServiceConfiguration** type extends the **ServiceConfiguration** type.

```
<xs:complexType name="UnifiedMessageServiceConfiguration">
  <xs:complexContent>
    <xs:extension base="t:ServiceConfiguration">
      <xs:sequence>
```

```

    <xs:element minOccurs="1" maxOccurs="1" name="UmEnabled"
type="xs:boolean" />
    <xs:element minOccurs="1" maxOccurs="1"
name="PlayOnPhoneDialString" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1"
name="PlayOnPhoneEnabled" type="xs:boolean" />
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

Element	Type	Definition
UmEnabled	xs:boolean	Specifies whether Unified Messaging is enabled. This element MUST be included if the UnifiedMessageServiceConfiguration type is used.
PlayOnPhoneDialString	xs:string	Specifies the telephone number for play-on-phone. This element MUST be included if the UnifiedMessageServiceConfiguration type is used.
PlayOnPhoneEnabled	xs:boolean	Specifies whether play-on-phone is enabled. This element MUST be included if the UnifiedMessageServiceConfiguration type is used.

3.1.4.5.3 Elements

3.1.4.5.3.1 m:GetServiceConfiguration

The **GetServiceConfiguration** element specifies the base element for a **GetServiceConfiguration** request.

```

<xs:element name="GetServiceConfiguration"
type="m:GetServiceConfigurationType"/>

```

3.1.4.5.3.2 m:GetServiceConfigurationResponse

The **GetServiceConfigurationResponse** element specifies the response message for a **GetServiceConfiguration** operation.

```
<xs:element name="GetServiceConfigurationResponse"
type="m:GetServiceConfigurationResponseMessageType"/>
```

3.1.4.5.4 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.5.4.1 GetServiceConfigurationSoapIn

The **GetServiceConfigurationSoapIn** message contains four parts.

Part Name	Element/Type	Description
request	GetServiceConfiguration	Specifies the request.
Impersonation	ExchangeImpersonation	Specifies Exchange Impersonation information.
RequestVersion	RequestServerVersion	Specifies the schema version for the GetServiceConfiguration request.
MailboxCulture	MailboxCulture	Specifies the culture to use for accessing the mailbox . The cultures are defined by [RFC3066].

```
<wsdl:message name="GetServiceConfigurationSoapIn">
  <wsdl:part name="request" element="tns:GetServiceConfiguration" />
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
</wsdl:message>
```

3.1.4.5.4.2 GetServiceConfigurationSoapOut

The **GetServiceConfigurationSoapOut** message contains two parts.

Part Name	Element/Type	Description
GetServiceConfigurationResult	GetServiceConfigurationResponse	Specifies the response.
ServerVersion	ServerVersionInfo	Specifies the server version for the response.

```
<wsdl:message name="GetServiceConfigurationSoapOut">
  <wsdl:part name="GetServiceConfigurationResult"
element="tns:GetServiceConfigurationResponse" />
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

3.1.4.6 GetUMProperties Operation

This operation returns a list of Unified Messaging properties. If the operation succeeds, a **GetUMPropertiesResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="GetUMProperties">
  <wsdl:input message="tns:GetUMPropertiesSoapIn" />
  <wsdl:output message="tns:GetUMPropertiesSoapOut" />
</wsdl:operation>

<wsdl:message name="GetUMPropertiesSoapIn">
  <wsdl:part name="parameters" element="tns:GetUMProperties" />
</wsdl:message>

<wsdl:message name="GetUMPropertiesSoapOut">
  <wsdl:part name="parameters" element="tns:GetUMPropertiesResponse" />
</wsdl:message>
```

3.1.4.6.1 Complex Types

The following **XML Schema** complex type definitions are specific to this operation.

3.1.4.6.1.1 UProperties Complex Type

```
<s:complexType name="UMProperties">
  <s:sequence>
```

```

    <s:element minOccurs="1" maxOccurs="1" name="OofStatus"
type="s:boolean" />
    <s:element minOccurs="1" maxOccurs="1"
name="MissedCallNotificationEnabled" type="s:boolean" />
    <s:element minOccurs="0" maxOccurs="1"
name="PlayOnPhoneDialString" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1"
name="TelephoneAccessNumbers" type="s:string" />
    <s:element minOccurs="0" maxOccurs="1"
name="TelephoneAccessFolderEmail" type="s:string" />
  </s:sequence>
</s:complexType>

```

Element	Type	Definition
OofStatus	s:boolean	Indicates whether the Out of Office greeting is enabled. MUST be present.
MissedCallNotificationEnabled	s:boolean	Indicates whether missed call notifications are enabled. MUST be present.
PlayOnPhoneDialString	s:string	Contains the default telephone number to use for the PlayOnPhone and PlayOnPhoneGreeting operations (sections 3.1.4.5 and 3.1.4.6) If this element is not specified, the implementation can return a SOAP fault response.
TelephoneAccessNumbers	s:string	Contains a comma-separated list of telephone numbers that the user can use to access Unified Messaging via a telephone. If this element is not specified, the implementation can return a SOAP fault response.

TelephoneAccessFolderEmail	s:string	<p>Contains the identifier for the e-mail folder from which Unified Messaging will read messages over the telephone. This value is the folder EntryID [MS-OXGLOS] encoded as a base64 string (section 6.8 of [RFC 2045]).</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>
----------------------------	----------	--

3.1.4.6.2 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.6.2.1 GetUMProperties Element

Defines a request to get Unified Messaging properties.

```
<s:element name="GetUMProperties">
  <s:complexType />
</s:element>
```

3.1.4.6.2.2 GetUMPropertiesResponse Element

Defines a response to a **GetUMProperties** request.

```
<s:element name="GetUMPropertiesResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1"
name="GetUMPropertiesResponse" type="tns:UMProperties" />
    </s:sequence>
  </s:complexType>
</s:element>
```

Element	Type	Definition
GetUMPropertiesResponse	tns:UMProperties	Contains a list of Unified Messaging properties. See the UMProperties complex type for more information (section 3.1.4.3.1.1). If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.6.3 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.6.3.1 GetUMPropertiesSoapIn Message

Parameters for the **GetUMPropertiesSoapIn** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns: GetUMProperties	This part contains the information required to get Unified Messaging properties.

3.1.4.6.3.2 GetUMPropertiesSoapOut Message

Parameters for the **GetUMPropertiesSoapOut** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:GetUMPropertiesResponse	Response to a GetUMProperties request.

3.1.4.7 IsUMEnabled Operation

Returns a value that indicates whether the user who is making the request is enabled for Unified Messaging. If the operation succeeds, an **IsUMEnabledResponse** element is

returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.<4>

```
<wsdl:operation name="IsUMEnabled">
  <wsdl:input message="tns:IsUMEnabledSoapIn" />
  <wsdl:output message="tns:IsUMEnabledSoapOut" />
</wsdl:operation>

<wsdl:message name="IsUMEnabledSoapIn">
  <wsdl:part name="parameters" element="tns:IsUMEnabled" />
</wsdl:message>

<wsdl:message name="IsUMEnabledSoapOut">
  <wsdl:part name="parameters" element="tns:IsUMEnabledResponse" />
</wsdl:message>
```

3.1.4.7.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.7.1.1 IsUMEnabled Element

Defines a request to get whether a mailbox is enabled for Unified Messaging.

```
<s:element name="IsUMEnabled">
  <s:complexType />
</s:element>
```

3.1.4.7.1.2 IsUMEnabledResponse Element

Defines a response to an **IsUMEnabled** request.

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

Element	Type	Definition
IsUMEnabledResponse	s:boolean	Contains a value that indicates whether a mailbox is enabled for Unified Messaging. MUST be present.

3.1.4.7.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.7.2.1 IsUMEnabledSoapIn Message

Parameters for the **IsUMEnabledSoapIn** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:IsUMEnabled	This part contains the information required to discover whether a mailbox is enabled for Unified Messaging.

3.1.4.7.2.2 IsUMEnabledSoapOut Message

Parameters for the **IsUMEnabledSoapOut** message.

Parameter	Element/Type	Description
Parameters	tns:IsUMEnabledResponse	Response to a IsUMEnabled request.

3.1.4.8 PlayOnPhone2 Operation

This operation is used to initiates an outbound call and plays a voice message over the telephone.<5>

```
<wsdl:operation name="PlayOnPhone2">  
  <wsdl:input message="tns:PlayOnPhoneSoapIn2" />  
  <wsdl:output message="tns:PlayOnPhoneSoapOut2" />  
</wsdl:operation>
```

3.1.4.8.1 Complex Types

The following **XML schema** complex type definitions are specific to this operation.

3.1.4.8.1.1 t:BaseItemIdType

The **BaseItemIdType** type specifies the base class for identifiers that represent voice mail items in a **mailbox**.

```
<xs:complexType name="BaseItemIdType" abstract="true"/>
```

3.1.4.8.1.2 t:ItemIdType

The **ItemIdType** type specifies the identifier that represents a voice mail item in a mailbox.

```
<xs:complexType name="ItemIdType">
  <xs:complexContent>
    <xs:extension base="t:BaseItemIdType">
      <xs:attribute name="Id" type="xs:string" use="required" />
      <xs:attribute name="ChangeKey" type="xs:string" use="optional" />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute	Type	Definition
Id	xs:string	Specifies the voice mail identifier.
ChangeKey	xs:string	Specifies the change key for the voice mail identifier. This is not used.

3.1.4.8.1.3 m:PlayOnPhoneType

The **PlayOnPhoneType** type specifies the request to play a voice mail over the telephone.

```
<xs:complexType name="PlayOnPhoneType">
  <xs:complexContent>
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="ItemId" type="t:ItemIdType"
minOccurs="1" maxOccurs="1"/>
        <xs:element name="DialString" type="xs:string"
minOccurs="1" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
ItemId	t:ItemIdType	Specifies the voice mail identifier of the voice mail to play on the telephone number identified by the DialString element.

DialString	xs:string	Specifies the dial string of the telephone that plays the voice mail.
------------	-----------	---

3.1.4.8.1.4 m:PlayOnPhone2Type

The **PlayOnPhone2Type** type specifies the request to play a voice mail over the telephone.

```
<xs:complexType name="PlayOnPhone2Type">
  <xs:sequence>
    <xs:element name="PlayOnPhone" type="m:PlayOnPhoneType"/>
  </xs:sequence>
</xs:complexType>
```

3.1.4.8.1.5 m:PlayOnPhoneResponse2Type

The **PlayOnPhone2Type** type specifies the response to play a voice mail over the telephone.

```
<xs:complexType name="PlayOnPhoneResponse2Type">
  <xs:sequence>
    <xs:element name="PlayOnPhoneResponse"
type="m:PlayOnPhoneResponseMessageType"/>
  </xs:sequence>
</xs:complexType>
```

3.1.4.8.1.6 m:PlayOnPhoneResponseMessageType

The **PlayOnPhoneResponseMessageType** type specifies the response to play a voice mail over the telephone.

```
<xs:complexType name="PlayOnPhoneResponseMessageType">
  <xs:complexContent>
    <xs:extension base="m:ResponseMessageType">
      <xs:sequence>
        <xs:element name="PhoneCallId" type="t:PhoneCallIdType"
minOccurs="0" maxOccurs="1"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Element	Type	Definition
PhoneCallId	t:PhoneCallIdType	Specifies the telephone call identifier.

3.1.4.8.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.8.2.1 PlayOnPhoneSoapIn2

The **PlayOnPhoneSoapIn2** WSDL message specifies the **PlayOnPhone2** request.

Parts for the **PlayOnPhoneSoapIn2** message are listed in the following table.

Part	Element/Type	Description
request	tns:PlayOnPhone2Type	Specifies the request.
Impersonation	t:ExchangeImpersonation	Specifies Exchange Impersonation information.
MailboxCulture	t:MailboxCulture	Specifies the culture to use for accessing the mailbox . The cultures are defined by [RFC3066].
RequestVersion	t:RequestServerVersion	Specifies the schema version for the PlayOnPhone request.

```
<wsdl:message name="PlayOnPhoneSoapIn2">  
  <wsdl:part name="request" element="tns:PlayOnPhone2Type"/>  
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>  
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>  
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>  
</wsdl:message>
```

3.1.4.8.2.2 PlayOnPhoneSoapOut2

The **PlayOnPhoneSoapOut2** WSDL message specifies the **PlayOnPhone2** response.

Parts for the **PlayOnPhoneSoapOut2** message are listed in the following table.

Part	Element/Type	Description
PlayOnPhoneResult	tns:PlayOnPhoneResponse2Type	Specifies the response.
ServerVersion	t:ServerVersionInfo	Specifies the server version for the response.

```
<wsdl:message name="PlayOnPhoneSoapOut2">
  <wsdl:part name="PlayOnPhoneResult"
  element="tns:PlayOnPhoneResponse" />
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo" />
</wsdl:message>
```

3.1.4.9 PlayOnPhone Operation

Initiates an outbound call and plays a voice message over the telephone. If the operation succeeds, a **PlayOnPhoneResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="PlayOnPhone">
  <wsdl:input message="tns:PlayOnPhoneSoapIn" />
  <wsdl:output message="tns:PlayOnPhoneSoapOut" />
</wsdl:operation>

<wsdl:message name="PlayOnPhoneSoapIn">
  <wsdl:part name="parameters" element="tns:PlayOnPhone" />
</wsdl:message>

<wsdl:message name="PlayOnPhoneSoapOut">
  <wsdl:part name="parameters" element="tns:PlayOnPhoneResponse" />
</wsdl:message>
```

3.1.4.9.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.9.1.1 PlayOnPhone Element

Defines a request to play a voice message on a telephone.

```
<s:element name="PlayOnPhone">
```

```

    <s:complexType>
      <s:sequence>
        <s:element minOccurs="0" maxOccurs="1" name="entryId"
type="s:string" />
        <s:element minOccurs="0" maxOccurs="1" name="DialString"
type="s:string" />
      </s:sequence>
    </s:complexType>
  </s:element>

```

Element	Type	Definition
entryId	s:string	<p>The identifier of the voice mail item to play. This value is the EntryID property, as defined in [MS-OXGLOS] and encoded as a base64 string (section 6.8 of [RFC 2045]).</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>
DialString	s:string	<p>The telephone number to dial. There are no constraints on the telephone number format.</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>

3.1.4.9.1.2 PlayOnPhoneResponse Element

Defines a response to a **PlayOnPhone** request.

```

<s:element name="PlayOnPhoneResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1"
name="PlayOnPhoneResponse" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>

```

Element	Type	Definition
PlayOnPhoneResponse	s:string	The identifier of the phone call. This value MUST be used as the CallId element for the Disconnect and GetCallInfo requests (sections 3.1.4.1 and 3.1.4.2). If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.9.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.9.2.1 PlayOnPhoneSoapIn Message

Parameters for the **PlayOnPhoneSoapIn** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:PlayOnPhone	This part contains the information required to play a voice message on a telephone.

3.1.4.9.2.2 PlayOnPhoneSoapOut Message

Parameters for the **PlayOnPhoneSoapOut** message are listed in the following table.

Parameter	Element/Type	Description
parameters	tns:PlayOnPhoneResponse	Response to a PlayOnPhone request.

3.1.4.10 PlayOnPhoneGreeting Operation

Initiates an outbound call to play and record a greeting over the telephone. If the operation succeeds, a **PlayOnPhoneGreetingResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```

<wsdl:operation name="PlayOnPhoneGreeting">
  <wsdl:input message="tns:PlayOnPhoneGreetingSoapIn" />
  <wsdl:output message="tns:PlayOnPhoneGreetingSoapOut" />
</wsdl:operation>

<wsdl:message name="PlayOnPhoneGreetingSoapIn">
  <wsdl:part name="parameters" element="tns:PlayOnPhoneGreeting" />
</wsdl:message>

<wsdl:message name="PlayOnPhoneGreetingSoapOut">
  <wsdl:part name="parameters"
element="tns:PlayOnPhoneGreetingResponse" />
</wsdl:message>

```

3.1.4.10.1 Simple Types

The following **XML Schema** simple definitions are specific to this operation.

3.1.4.10.1.1 UMGreetingType

The type of greeting to be played and recorded through a **PlayOnPhoneGreeting** operation is as follows:

```

<s:simpleType name="UMGreetingType">
  <s:restriction base="s:string">
    <s:enumeration value="NormalCustom" />
    <s:enumeration value="OofCustom" />
  </s:restriction>
</s:simpleType>

```

Value	Meaning
NormalCustom	This is the default greeting to be played to callers when the user is not Out of Office .
OofCustom	Greeting to be played when the user is Out of Office.

3.1.4.10.2 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.10.2.1 PlayOnPhoneGreeting Element

Defines a request to play a Unified Messaging greeting on a telephone.

```

<s:element name="PlayOnPhoneGreeting">

```

```

    <s:complexType>
      <s:sequence>
        <s:element minOccurs="1" maxOccurs="1" name="GreetingType"
type="tns:UMGreetingType" />
        <s:element minOccurs="0" maxOccurs="1" name="DialString"
type="s:string" />
      </s:sequence>
    </s:complexType>
  </s:element>

```

Element	Type	Definition
GreetingType	tns:UMGreetingType	The type of greeting to play. See the UMGreetingType simple type for a list of valid values. MUST be present.
DialString	s:string	The telephone number to dial. There are no constraints on the telephone number format. If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.10.2.2 PlayOnPhoneGreetingResponse Element

Defines a response to a **PlayOnPhoneGreeting** request.

```

<s:element name="PlayOnPhoneGreetingResponse">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1"
name="PlayOnPhoneGreetingResponse" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>

```

Element	Type	Definition
PlayOnPhoneGreetingResponse	s:string	<p>The identifier of the phone call. This value MUST be used as the CallId element for the Disconnect and GetCallInfo requests (sections 3.1.4.1 and 3.1.4.2).</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>

3.1.4.10.3 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.10.3.1 PlayOnPhoneGreetingSoapIn Message

Parameters for the **PlayOnPhoneGreetingSoapIn** message are as follows.

Parameter	Element/Type	Description
parameters	tns:PlayOnPhoneGreeting	This part contains the information required to play a Unified Messaging greeting on a telephone.

3.1.4.10.3.2 PlayOnPhoneGreetingSoapOut Message

Parameters for the **PlayOnPhoneGreetingSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:PlayOnPhoneGreetingResponse	Response to a PlayOnPhoneGreeting request.

3.1.4.11 ResetPIN Operation

This operation creates a new password for the user who is making the request. If the operation is successful, a **ResetPINResponse** element is returned. If the operation fails, a **SOAP Fault** response is returned that contains information about the failure.

```
<wsdl:operation name="ResetPIN">
  <wsdl:input message="tns:ResetPINSoapIn" />
  <wsdl:output message="tns:ResetPINSoapOut" />
</wsdl:operation>

<wsdl:message name="ResetPINSoapIn">
  <wsdl:part name="parameters" element="tns:ResetPIN" />
</wsdl:message>

<wsdl:message name="ResetPINSoapOut">
  <wsdl:part name="parameters" element="tns:ResetPINResponse" />
</wsdl:message>
```

3.1.4.11.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.11.1.1 ResetPIN Element

Defines a request to reset the user's password.

```
<s:element name="ResetPIN">
  <s:complexType />
</s:element>
```

3.1.4.11.1.2 ResetPINResponse Element

Defines a response to a **ResetPIN** request.

```
<s:element name="ResetPINResponse">
  <s:complexType />
</s:element>
```

3.1.4.11.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.11.2.1 ResetPINSoapIn Message

Parameters for the **ResetPINSoapIn** message are as follows.

Parameter	Element/Type	Description
parameters	tns:ResetPIN	This part contains the information required to reset the user's password.

3.1.4.11.2.2 ResetPINSoapOut Message

Parameters for the **ResetPINSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:ResetPINResponse	Response to a ResetPIN request.

3.1.4.12 SetMissedCallNotificationEnabled Operation

Sets a value that indicates whether missed call notifications are enabled for the user who is making the request. If the operation succeeds, a **SetMissedCallNotificationEnabledResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="SetMissedCallNotificationEnabled">
  <wsdl:input message="tns:SetMissedCallNotificationEnabledSoapIn" />
  <wsdl:output message="tns:SetMissedCallNotificationEnabledSoapOut" />
</wsdl:operation>
```

```
<wsdl:message name="SetMissedCallNotificationEnabledSoapIn">
  <wsdl:part name="parameters"
element="tns:SetMissedCallNotificationEnabled" />
</wsdl:message>
```

```
<wsdl:message name="SetMissedCallNotificationEnabledSoapOut">
  <wsdl:part name="parameters"
element="tns:SetMissedCallNotificationEnabledResponse" />
</wsdl:message>
```

3.1.4.12.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.12.1.1 SetMissedCallNotificationEnabled Element

Defines a request to set whether missed call notifications are enabled for the user who is making the request.

```
<s:element name="SetMissedCallNotificationEnabled">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="status"
type="s:boolean" />
    </s:sequence>
  </s:complexType>
</s:element>
```

Element	Type	Definition
status	s:boolean	A value that indicates whether to enable or disable missed call notifications for the user who is making the request. MUST be present.

3.1.4.12.1.2 SetMissedCallNotificationEnabledResponse Element

Defines a response to a **SetMissedCallNotificationEnabled** request.

```
<s:element name="SetMissedCallNotificationEnabledResponse">
  <s:complexType />
</s:element>
```

3.1.4.12.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.12.2.1 SetMissedCallNotificationEnabledSoapIn Message

Parameters for the **SetMissedCallNotificationEnabledSoapIn** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetMissedCallNotificationEnabled	This part contains the information required to set whether missed call notifications are enabled for the user making the request.

3.1.4.12.2 SetMissedCallNotificationEnabledSoapOut Message

Parameters for the **SetMissedCallNotificationEnabledSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetMissedCallNotificationEnabledResponse	Response to a SetMissedCallNotificationEnabled request.

3.1.4.13 SetOofStatus Operation

Sets a value that indicates whether the **Out of Office** greeting is played for the user who makes the request. If the operation succeeds, a **SetOofStatusResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="SetOofStatus">
  <wsdl:input message="tns:SetOofStatusSoapIn" />
  <wsdl:output message="tns:SetOofStatusSoapOut" />
</wsdl:operation>

<wsdl:message name="SetOofStatusSoapIn">
  <wsdl:part name="parameters" element="tns:SetOofStatus" />
</wsdl:message>

<wsdl:message name="SetOofStatusSoapOut">
  <wsdl:part name="parameters" element="tns:SetOofStatusResponse" />
</wsdl:message>
```

3.1.4.13.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.13.1.1 SetOofStatus Element

Defines a request to set whether the **Out of Office** greeting is enabled for the user who is making the request.

```
<s:element name="SetOofStatus">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="1" maxOccurs="1" name="status"
type="s:boolean" />
    </s:sequence>
  </s:complexType>
```

```
</s:element>
```

Element	Type	Definition
status	s:boolean	A value that indicates whether the Out of Office greeting is played to callers. MUST be present.

3.1.4.13.1.2 SetOofStatusResponse Element

Defines a response to a **SetOofStatus** request.

```
<s:element name="SetOofStatusResponse">  
  <s:complexType />  
</s:element>
```

3.1.4.13.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.13.2.1 SetOofStatusSoapIn Message

Parameters for the **SetOofStatusSoapIn** message are as follows.

Parameter	Element/Type	Description
Parameters	tns:SetOofStatus	This part contains the information required to set whether the Out-of-Office greeting is enabled for the user who is making the request.

3.1.4.13.2.2 SetOofStatusSoapOut Message

Parameters for the **SetOofStatusSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetOofStatusResponse	Response to a SetOofStatus request.

3.1.4.14 SetPlayOnPhoneDialString Operation

Sets the default telephone number used in **PlayOnPhone** and **PlayOnPhoneGreeting** requests. If the operation succeeds, a **SetPlayOnPhoneDialStringResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="SetPlayOnPhoneDialString">
  <wsdl:input message="tns:SetPlayOnPhoneDialStringSoapIn" />
  <wsdl:output message="tns:SetPlayOnPhoneDialStringSoapOut" />
</wsdl:operation>

<wsdl:message name="SetPlayOnPhoneDialStringSoapIn">
  <wsdl:part name="parameters" element="tns:SetPlayOnPhoneDialString" />
</wsdl:message>

<wsdl:message name="SetPlayOnPhoneDialStringSoapOut">
  <wsdl:part name="parameters"
element="tns:SetPlayOnPhoneDialStringResponse" />
</wsdl:message>
```

3.1.4.14.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.14.1.1 SetPlayOnPhoneDialString Element

Defines a request to store the default telephone number to use in **PlayOnPhone** and **PlayOnPhoneGreeting** requests.

```
<s:element name="SetPlayOnPhoneDialString">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1" name="dialString"
type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>
```

Element	Type	Definition
dialString	s:string	A telephone number. There are no constraints on the telephone number format. If this element is not specified, the implementation can return a SOAP fault response.

3.1.4.14.1.2 SetPlayOnPhoneDialStringResponse Element

Defines a response to a **SetPlayOnPhoneDialString** request.

```
<s:element name="SetPlayOnPhoneDialStringResponse">
  <s:complexType />
</s:element>
```

3.1.4.14.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.14.2.1 SetPlayOnPhoneDialStringSoapIn Message

Parameters for the **SetPlayOnPhoneDialStringSoapIn** message are as follows.

Parameter	Element/Type	Description
parameters	tns: SetPlayOnPhoneDialString	This part contains the information required to set the default telephone number to use in PlayOnPhone and PlayOnPhoneGreeting requests.

3.1.4.14.2.2 SetPlayOnPhoneDialStringSoapOut Message

Parameters for the **SetPlayOnPhoneDialStringSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetPlayOnPhoneDialStringResponse	Response to a SetPlayOnPhoneDialString request.

3.1.4.15 SetTelephoneAccessFolderEmail Operation

Sets the mailbox folder from which the Unified Messaging server will read back to the user over the telephone. If the operation succeeds, a **SetTelephoneAccessFolderEmailResponse** element is returned. If the operation fails, a **SOAP fault** response is returned that contains information about the failure.

```
<wsdl:operation name="SetTelephoneAccessFolderEmail">
  <wsdl:input message="tns:SetTelephoneAccessFolderEmailSoapIn" />
  <wsdl:output message="tns:SetTelephoneAccessFolderEmailSoapOut" />
</wsdl:operation>

<wsdl:message name="SetTelephoneAccessFolderEmailSoapIn">
  <wsdl:part name="parameters"
element="tns:SetTelephoneAccessFolderEmail" />
</wsdl:message>

<wsdl:message name="SetTelephoneAccessFolderEmailSoapOut">
  <wsdl:part name="parameters"
element="tns:SetTelephoneAccessFolderEmailResponse" />
</wsdl:message>
```

3.1.4.15.1 Elements

The following **XML Schema** element definitions are specific to this operation.

3.1.4.15.1.1 SetTelephoneAccessFolderEmail Element

Defines a request to set the folder that the Unified Messaging server will use to play e-mail messages over the telephone.

```
<s:element name="SetTelephoneAccessFolderEmail">
  <s:complexType>
    <s:sequence>
      <s:element minOccurs="0" maxOccurs="1"
name="base64FolderId" type="s:string" />
    </s:sequence>
  </s:complexType>
</s:element>
```

Element	Type	Definition
base64FolderId	s:string	<p>The folder identifier. This value is the folder EntryID [MS-OXGLOS] that is encoded as a base64 string (section 6.8 of [RFC 2045]).</p> <p>If this element is not specified, the implementation can return a SOAP fault response.</p>

3.1.4.15.1.2 SetTelephoneAccessFolderEmailResponse Element

Defines a response to a **SetTelephoneAccessFolderEmail** request.

```
<s:element name="SetTelephoneAccessFolderEmailResponse">
  <s:complexType />
</s:element>
```

3.1.4.15.2 Messages

The following **WSDL message** definitions are specific to this operation.

3.1.4.15.2.1 SetTelephoneAccessFolderEmailSoapIn Message

Parameters for the **SetTelephoneAccessFolderEmailSoapIn** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetTelephoneAccessFolderEmail	This part contains the information required to set the folder that the Unified Messaging server will use to play e-mail messages over the telephone.

3.1.4.15.2.2 SetTelephoneAccessFolderEmailSoapOut Message

Parameters for the **SetTelephoneAccessFolderEmailSoapOut** message are as follows.

Parameter	Element/Type	Description
parameters	tns:SetTelephoneAccessFolderEmailResponse	Response to a SetTelephoneAccessFolderEmail request.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 *GetUMProperties Example*

The following example shows how to retrieve the list of Unified Messaging properties for the mailbox of the user who is making the request.

Request:

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

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetUMPropertiesResponse
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <GetUMPropertiesResponse>
        <OofStatus>>false</OofStatus>
        <MissedCallNotificationEnabled>>true</MissedCallNotificationEnabled>
        <PlayOnPhoneDialString>12345</PlayOnPhoneDialString>
      </GetUMPropertiesResponse>
    </GetUMPropertiesResponse>
  </soap:Body>
</soap:Envelope>
```

```

    <TelephoneAccessNumbers>54321</TelephoneAccessNumbers>
<TelephoneAccessFolderEmail>AAAAAGsd2rbQLVtLobUGbrq/9IUBAEX2ikn/L8JJtI5
WHI0FAW8AAAFXHhsAAA==</TelephoneAccessFolderEmail>
  </GetUMPropertiesResponse>
</GetUMPropertiesResponse>
</soap:Body>
</soap:Envelope>

```

4.2 *IsUMEnabled Example*

The following example shows how to determine whether the mailbox of the user who is making the request is enabled for Unified Messaging.

Request:

```

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

```

Response:

```

<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <IsUMEnabledResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <IsUMEnabledResponse>true</IsUMEnabledResponse>
    </IsUMEnabledResponse>
  </soap:Body>
</soap:Envelope>

```

4.3 *ResetPIN Example*

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

Request:

```

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

```

```
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <ResetPINResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
</soap:Envelope>
```

4.4 PlayOnPhone Example

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

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  <soap:Body>
    <PlayOnPhone
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <entryId>AAAAAGsd2rbQLVtLobUGbrq/9IUHAEX2ikn/L8JJtI5WHI0FAW8AAAFXHhsAAC
xVpEl+KVVl1957wp//x6UAGAetcDUAAA==</entryId>
        <DialString>12345</DialString>
      </PlayOnPhone>
    </soap:Body>
  </soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <PlayOnPhoneResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <PlayOnPhoneResponse>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQG
RmLWV1bS0wMS5leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</PlayOnPhoneResponse
  >
    </PlayOnPhoneResponse>
```

```
</soap:Body>
</soap:Envelope>
```

4.5 *PlayOnPhoneGreeting Example*

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

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <PlayOnPhoneGreeting
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <GreetingType>NormalCustom</GreetingType>
      <DialString>12345</DialString>
    </PlayOnPhoneGreeting>
  </soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <PlayOnPhoneGreetingResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
<PlayOnPhoneGreetingResponse>MjA4MTQ5MmItMTBmZC00ZGFmLThiMzEtND1lNDJmM2
Y3MjIxQGRmLWV1bS0wMS5leGN0YW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</PlayOnPhone
GreetingResponse>
      </PlayOnPhoneGreetingResponse>
    </soap:Body>
  </soap:Envelope>
```

4.6 *GetCallInfo Example*

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

Pre-requisites:

- 1- Initiate a play-on-phone call by sending either a **PlayOnPhone** or **PlayOnPhoneGreeting** request (see examples 4.2 and 4.3).

- 2- Save the **PlayOnPhoneResponse** value in a temporary variable. This value is the **CallId** that you will use when making the **GetCallInfo** request.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <GetCallInfo
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
<CallId>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQGRmLWV1bS0wMS5
leGNoYW5nZS5jb3JwLm1pY3Jvc29mdC5jb20=</CallId>
    </GetCallInfo>
  </soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <GetCallInfoResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <GetCallInfoResponse>
        <CallState>Connected</CallState>
        <EventCause>None</EventCause>
      </GetCallInfoResponse>
    </GetCallInfoResponse>
  </soap:Body>
</soap:Envelope>
```

4.7 Disconnect Example

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

Prerequisites:

1. Initiate a play-on-phone call by sending either a **PlayOnPhone** or **PlayOnPhoneGreeting** request (see examples 4.2 and 4.3).
2. Save the **PlayOnPhoneResponse** value in a temporary variable. This value is the **CallId** that you will use to make the **Disconnect** request.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <Disconnect
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
<CallId>NDEzYjEzNmMtZTE2Zi00NTJlLWI3YzctNDhkMTE3MDE3YjlmQGRmLWV1bS0wMS5
leGNoYW5nZS5jb3JwLmlpY3Jvc29mdC5jb20=</CallId>
    </Disconnect>
  </soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <DisconnectResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
</soap:Envelope>
```

4.8 SetMissedCallNotificationEnabled Example

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

Request:

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

Response:

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

```

<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetMissedCallNotificationEnabledResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
</soap:Envelope>

```

4.9 *SetOofStatus Example*

The **SetOofStatus** operation sets a value that indicates whether the **Out-of-Office** greeting is enabled for the user who is making the request.

Request:

```

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

```

Response:

```

<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetOofStatusResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
</soap:Envelope>

```

4.10 *SetPlayOnPhoneDialString Example*

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

Request:

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
  <soap:Body>

```

```
<SetPlayOnPhoneDialString
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
  <dialString>12345</dialString>
</SetPlayOnPhoneDialString>
</soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetPlayOnPhoneDialStringResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
</soap:Envelope>
```

4.11 SetTelephoneAccessFolderEmail Example

The following example shows how to form a request to set the folder, from which a Unified Messaging server will read back to the user over the telephone.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SetTelephoneAccessFolderEmail
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <base64FolderID>AAAAAGsd2rbQLVtLobUGbrq/9IUBAEX2ikn/L8JJtI5WHI0FAW8AAAF
XHhsAAA==</base64FolderID>
    </SetTelephoneAccessFolderEmail>
  </soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SetTelephoneAccessFolderEmailResponse
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages" />
  </soap:Body>
```

```
</soap:Envelope>
```

4.12 SOAP Fault Example

Any of the Voice Mail Settings Web service operations returns a **SOAP fault**. A SOAP fault element is used to carry error and/or status information within a **SOAP message** when there is API misuse or where there are configuration failures. The following example shows a SOAP fault message in response to an invalid **PlayOnPhone** request.

Request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <PlayOnPhone
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <entryId>INVALID_ENTRY_ID</entryId>
      <DialString>12345</DialString>
    </PlayOnPhone>
  </soap:Body>
</soap:Envelope>
```

Response:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <soap:Fault>
      <faultcode>soap:Server</faultcode>
      <faultstring>The object identifier is not valid</faultstring>
      <faultactor>http://srv/unifiedmessaging/service.asmx</faultactor>
      <detail>
        <ExceptionType
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">In
validObjectIdException</ExceptionType>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

The Voice Mail Settings Web service relies on the Web Server that hosts the application to perform authentication.

Use secure communication via HTTPS [RFC2818] when using the Voice Mail Settings Web service.

6 Appendix A: Full WSDL

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

```
<?xml version="1.0" encoding="utf-8"?>
<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:ns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:ns1="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
  <wsdl:documentation
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">Exchange Unified
Messaging Web Service</wsdl:documentation>
  <wsdl:types>
    <s:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
>
      <s:element name="IsUMEnabled">
        <s:complexType/>
      </s:element>
      <s:element name="IsUMEnabledResponse">
        <s:complexType>
          <s:sequence>
            <s:element minOccurs="1"
maxOccurs="1" name="IsUMEnabledResponse" type="s:boolean"/>
          </s:sequence>
        </s:complexType>
      </s:element>
      <s:element name="GetUMProperties">
        <s:complexType/>
      </s:element>
      <s:element name="GetUMPropertiesResponse">
```

```

        <s:complexType>
            <s:sequence>
                <s:element minOccurs="0"
maxOccurs="1" name="GetUMPropertiesResponse" type="tns:UMProperties"/>
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:complexType name="UMProperties">
        <s:sequence>
            <s:element minOccurs="1" maxOccurs="1"
name="OofStatus" type="s:boolean"/>
            <s:element minOccurs="1" maxOccurs="1"
name="MissedCallNotificationEnabled" type="s:boolean"/>
            <s:element minOccurs="0" maxOccurs="1"
name="PlayOnPhoneDialString" type="s:string"/>
            <s:element minOccurs="0" maxOccurs="1"
name="TelephoneAccessNumbers" type="s:string"/>
            <s:element minOccurs="0" maxOccurs="1"
name="TelephoneAccessFolderEmail" type="s:string"/>
        </s:sequence>
    </s:complexType>
    <s:element name="SetOofStatus">
        <s:complexType>
            <s:sequence>
                <s:element minOccurs="1"
maxOccurs="1" name="status" type="s:boolean"/>
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="SetOofStatusResponse">
        <s:complexType/>
    </s:element>
    <s:element name="SetPlayOnPhoneDialString">
        <s:complexType>
            <s:sequence>
                <s:element minOccurs="0"
maxOccurs="1" name="dialString" type="s:string"/>
            </s:sequence>
        </s:complexType>
    </s:element>
    <s:element name="SetPlayOnPhoneDialStringResponse">
        <s:complexType/>
    </s:element>
    <s:element name="SetTelephoneAccessFolderEmail">
        <s:complexType>
            <s:sequence>
                <s:element minOccurs="0"
maxOccurs="1" name="base64FolderId" type="s:string"/>
            </s:sequence>
        </s:complexType>
    </s:element>

```

```

        </s:sequence>
    </s:complexType>
</s:element>
<s:element
name="SetTelephoneAccessFolderEmailResponse">
    <s:complexType/>
</s:element>
<s:element name="SetMissedCallNotificationEnabled">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="1"
maxOccurs="1" name="status" type="s:boolean"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element
name="SetMissedCallNotificationEnabledResponse">
    <s:complexType/>
</s:element>
<s:element name="ResetPIN">
    <s:complexType/>
</s:element>
<s:element name="ResetPINResponse">
    <s:complexType/>
</s:element>
<s:element name="PlayOnPhone">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0"
maxOccurs="1" name="entryId" type="s:string"/>
            <s:element minOccurs="0"
maxOccurs="1" name="DialString" type="s:string"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="PlayOnPhoneResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0"
maxOccurs="1" name="PlayOnPhoneResponse" type="s:string"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetCallInfo">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0"
maxOccurs="1" name="CallId" type="s:string"/>

```

```

        </s:sequence>
    </s:complexType>
</s:element>
<s:element name="GetCallInfoResponse">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0"
maxOccurs="1" name="GetCallInfoResponse" type="tns:UMCallInfo"/>
        </s:sequence>
    </s:complexType>
</s:element>
<s:complexType name="UMCallInfo">
    <s:sequence>
        <s:element minOccurs="1" maxOccurs="1"
name="CallState" type="tns:UMCallState"/>
        <s:element minOccurs="1" maxOccurs="1"
name="EventCause" type="tns:UMEventCause"/>
    </s:sequence>
</s:complexType>
<s:simpleType name="UMCallState">
    <s:restriction base="s:string">
        <s:enumeration value="Idle"/>
        <s:enumeration value="Connecting"/>
        <s:enumeration value="Alerted"/>
        <s:enumeration value="Connected"/>
        <s:enumeration value="Disconnected"/>
        <s:enumeration value="Incoming"/>
        <s:enumeration value="Transferring"/>
        <s:enumeration value="Forwarding"/>
    </s:restriction>
</s:simpleType>
<s:simpleType name="UMEventCause">
    <s:restriction base="s:string">
        <s:enumeration value="None"/>
        <s:enumeration value="UserBusy"/>
        <s:enumeration value="NoAnswer"/>
        <s:enumeration value="Unavailable"/>
        <s:enumeration value="Other"/>
    </s:restriction>
</s:simpleType>
<s:element name="Disconnect">
    <s:complexType>
        <s:sequence>
            <s:element minOccurs="0"
maxOccurs="1" name="CallId" type="s:string"/>
        </s:sequence>
    </s:complexType>
</s:element>

```

```

        <s:element name="DisconnectResponse">
            <s:complexType/>
        </s:element>
        <s:element name="PlayOnPhoneGreeting">
            <s:complexType>
                <s:sequence>
                    <s:element minOccurs="1"
maxOccurs="1" name="GreetingType" type="tns:UMGreetingType"/>
                    <s:element minOccurs="0"
maxOccurs="1" name="DialString" type="s:string"/>
                </s:sequence>
            </s:complexType>
        </s:element>
        <s:simpleType name="UMGreetingType">
            <s:restriction base="s:string">
                <s:enumeration value="NormalCustom"/>
                <s:enumeration value="OofCustom"/>
            </s:restriction>
        </s:simpleType>
        <s:element name="PlayOnPhoneGreetingResponse">
            <s:complexType>
                <s:sequence>
                    <s:element minOccurs="0"
maxOccurs="1" name="PlayOnPhoneGreetingResponse" type="s:string"/>
                </s:sequence>
            </s:complexType>
        </s:element>
    </s:schema>
    <xs:schema id="messages" elementFormDefault="qualified"
version="Exchange2010"
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages"
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"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/me
ssages">
        <xs:simpleType name="ResponseCodeType">
            <xs:restriction base="xs:string">
                <xs:enumeration value="NoError"/>
                <xs:enumeration
value="ErrorAccessDenied"/>
                <xs:enumeration
value="ErrorAccountDisabled"/>
                <xs:enumeration
value="ErrorADOperation"/>
                <xs:enumeration
value="ErrorADSessionFilter"/>
            </xs:restriction>
        </xs:simpleType>

```

```

        <xs:enumeration
value="ErrorADUnavailable"/>
        <xs:enumeration
value="ErrorImpersonateUserDenied"/>
        <xs:enumeration
value="ErrorImpersonationDenied"/>
        <xs:enumeration
value="ErrorImpersonationFailed"/>
        <xs:enumeration
value="ErrorIncorrectSchemaVersion"/>
        <xs:enumeration
value="ErrorInsufficientResources"/>
        <xs:enumeration
value="ErrorInternalServerError"/>
        <xs:enumeration
value="ErrorInternalServerErrorTransientError"/>
        <xs:enumeration
value="ErrorInvalidArgument"/>
        <xs:enumeration
value="ErrorInvalidOperation"/>
        <xs:enumeration
value="ErrorInvalidRequest"/>
        <xs:enumeration
value="ErrorInvalidRoutingType"/>
        <xs:enumeration
value="ErrorInvalidServerVersion"/>
        <xs:enumeration
value="ErrorMailboxMoveInProgress"/>
        <xs:enumeration
value="ErrorMailboxStoreUnavailable"/>
        <xs:enumeration
value="ErrorNotEnoughMemory"/>
        <xs:enumeration
value="ErrorSchemaValidation"/>
        <xs:enumeration value="ErrorServerBusy"/>
        <xs:enumeration
value="ErrorUnsupportedCulture"/>
        <xs:enumeration
value="ErrorUnifiedMessagingRequestFailed"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="BaseRequestType"
abstract="true"/>
    <xs:complexType name="ResponseMessageType">
        <xs:sequence minOccurs="0">
            <xs:element name="MessageText"
type="xs:string" minOccurs="0"/>

```

```

                                <xs:element name="ResponseCode"
type="m:ResponseCodeType" minOccurs="0"/>
                                <xs:element name="DescriptiveLinkKey"
type="xs:int" minOccurs="0"/>
                                <xs:element name="MessageXml"
minOccurs="0">
                                    <xs:complexType>
                                        <xs:sequence>
                                            <xs:any
processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
                                        </xs:sequence>
                                    </xs:complexType>
                                </xs:element>
                            </xs:sequence>
                            <xs:attribute name="ResponseClass"
type="t:ResponseClassType" use="required"/>
                        </xs:complexType>
                        <xs:complexType
name="DisconnectPhoneCallResponseMessageType">
                            <xs:complexContent>
                                <xs:extension
base="m:ResponseMessageType"/>
                            </xs:complexContent>
                        </xs:complexType>
                        <xs:complexType name="DisconnectPhoneCallType">
                            <xs:complexContent>
                                <xs:extension base="m:BaseRequestType">
                                    <xs:sequence>
                                        <xs:element
name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="1"
maxOccurs="1"/>
                                    </xs:sequence>
                                </xs:extension>
                            </xs:complexContent>
                        </xs:complexType>
                        <xs:element name="DisconnectPhoneCall"
type="m:DisconnectPhoneCallType"/>
                        <xs:element name="DisconnectPhoneCallResponse"
type="m:DisconnectPhoneCallResponseMessageType"/>
                        <xs:complexType name="GetPhoneCallInformationType">
                            <xs:complexContent>
                                <xs:extension base="m:BaseRequestType">
                                    <xs:sequence>
                                        <xs:element
name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="1"
maxOccurs="1"/>
                                    </xs:sequence>
                                </xs:extension>
                            </xs:complexContent>
                        </xs:complexType>
                    </xs:extension>

```

```

        </xs:complexContent>
    </xs:complexType>
    <xs:complexType
name="GetPhoneCallInformationResponseMessageType">
        <xs:complexContent>
            <xs:extension
base="m:ResponseMessageType">
                <xs:sequence>
                    <xs:element
name="PhoneCallInformation" type="t:PhoneCallInformationType"
minOccurs="0" maxOccurs="1"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:element name="GetPhoneCallInformation"
type="m:GetPhoneCallInformationType"/>
    <xs:element name="GetPhoneCallInformationResponse"
type="m:GetPhoneCallInformationResponseMessageType"/>
    <xs:complexType
name="ArrayOfServiceConfigurationResponseMessageType">
        <xs:sequence>
            <xs:element
name="ServiceConfigurationResponseMessageType"
type="m:ServiceConfigurationResponseMessageType" minOccurs="1"
maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType
name="ArrayOfServiceConfigurationType">
        <xs:choice minOccurs="1" maxOccurs="unbounded">
            <xs:element name="ConfigurationName"
type="t:ServiceConfigurationType"/>
        </xs:choice>
    </xs:complexType>
    <xs:complexType
name="GetServiceConfigurationResponseMessageType">
        <xs:complexContent>
            <xs:extension
base="m:ResponseMessageType">
                <xs:sequence>
                    <xs:element
name="ResponseMessages"
type="m:ArrayOfServiceConfigurationResponseMessageType" minOccurs="0"
maxOccurs="1"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

```



```

        </xs:sequence>
    </xs:complexType>
    <xs:complexType
name="PlayOnPhoneResponseMessageType">
        <xs:complexContent>
            <xs:extension
base="m:ResponseMessageType">
                <xs:sequence>
                    <xs:element
name="PhoneCallId" type="t:PhoneCallIdType" minOccurs="0"
maxOccurs="1"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="PlayOnPhoneResponse2Type">
        <xs:sequence>
            <xs:element name="PlayOnPhoneResponse"
type="m:PlayOnPhoneResponseMessageType"/>
        </xs:sequence>
    </xs:complexType>
</xs:schema>
<xs:schema id="types" elementFormDefault="qualified"
version="Exchange2010"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
namespace="http://www.w3.org/XML/1998/namespace"/>
    <xs:simpleType name="NonEmptyStringType">
        <xs:restriction base="xs:string">
            <xs:minLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="ResponseClassType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Success"/>
            <xs:enumeration value="Warning"/>
            <xs:enumeration value="Error"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:complexType name="ConnectingSIDType">
        <xs:choice>
            <xs:element name="PrincipalName"
type="t:NonEmptyStringType"/>

```

```

        <xs:element name="SID"
type="t:NonEmptyStringType"/>
        <xs:element name="PrimarySmtpAddress"
type="t:NonEmptyStringType"/>
        <xs:element name="SmtpAddress"
type="t:NonEmptyStringType"/>
    </xs:choice>
</xs:complexType>
<xs:complexType name="ExchangeImpersonationType">
    <xs:sequence>
        <xs:element name="ConnectingSID"
type="t:ConnectingSIDType"/>
    </xs:sequence>
    <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/"
/>
</xs:complexType>
<xs:complexType name="MailboxCultureType">
    <xs:simpleContent>
        <xs:extension base="xs:language">
            <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/"
/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="PhoneCallIdType">
    <xs:attribute name="Id" type="xs:string"
use="required"/>
</xs:complexType>
<xs:element name="ExchangeImpersonation"
type="t:ExchangeImpersonationType"/>
<xs:element name="MailboxCulture"
type="t:MailboxCultureType"/>
<xs:element name="RequestServerVersion">
    <xs:complexType>
        <xs:attribute name="Version"
type="t:ExchangeVersionType" fixed="Exchange2010" use="required"/>
    <xs:anyAttribute
namespace="http://schemas.xmlsoap.org/soap/envelope/"
/>
</xs:complexType>
</xs:element>
<xs:simpleType name="ExchangeVersionType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Exchange2010"/>
    </xs:restriction>
</xs:simpleType>

```

```

        <xs:element name="ServerVersionInfo">
            <xs:complexType>
                <xs:attribute name="MajorVersion"
type="xs:int" use="optional"/>
                <xs:attribute name="MinorVersion"
type="xs:int" use="optional"/>
                <xs:attribute name="MajorBuildNumber"
type="xs:int" use="optional"/>
                <xs:attribute name="MinorBuildNumber"
type="xs:int" use="optional"/>
                <xs:attribute name="Version"
type="xs:string" use="optional"/>
            </xs:complexType>
        </xs:element>
        <xs:simpleType name="ConnectionFailureCauseType">
            <xs:restriction base="xs:string">
                <xs:enumeration value="None"/>
                <xs:enumeration value="UserBusy"/>
                <xs:enumeration value="NoAnswer"/>
                <xs:enumeration value="Unavailable"/>
                <xs:enumeration value="Other"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:simpleType name="PhoneCallStateType">
            <xs:restriction base="xs:string">
                <xs:enumeration value="Idle"/>
                <xs:enumeration value="Connecting"/>
                <xs:enumeration value="Alerted"/>
                <xs:enumeration value="Connected"/>
                <xs:enumeration value="Disconnected"/>
                <xs:enumeration value="Incoming"/>
                <xs:enumeration value="Transferring"/>
                <xs:enumeration value="Forwarding"/>
            </xs:restriction>
        </xs:simpleType>
        <xs:complexType name="PhoneCallInformationType">
            <xs:sequence>
                <xs:element name="PhoneCallState"
type="t:PhoneCallStateType" minOccurs="1" maxOccurs="1"/>
                <xs:element name="ConnectionFailureCause"
type="t:ConnectionFailureCauseType" minOccurs="1" maxOccurs="1"/>
                <xs:element name="SIPResponseText"
type="xs:string" minOccurs="0" maxOccurs="1"/>
                <xs:element name="SIPResponseCode"
type="xs:int" minOccurs="0" maxOccurs="1"/>
            </xs:sequence>
        </xs:complexType>
        <xs:simpleType name="ServiceConfigurationType">

```

```

        <xs:list>
            <xs:simpleType>
                <xs:restriction base="xs:string">
                    <xs:enumeration
value="UnifiedMessagingConfiguration"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:list>
    </xs:simpleType>
    <xs:complexType name="BaseEmailAddressType"/>
    <xs:complexType name="EmailAddressType">
        <xs:complexContent>
            <xs:extension
base="t:BaseEmailAddressType">
                <xs:sequence>
                    <xs:element
name="EmailAddress" type="t:NonEmptyStringType" minOccurs="0"/>
                    <xs:element
name="RoutingType" type="t:NonEmptyStringType" minOccurs="0"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType
name="UnifiedMessageServiceConfiguration">
        <xs:complexContent>
            <xs:extension
base="t:ServiceConfiguration">
                <xs:sequence>
                    <xs:element minOccurs="1"
maxOccurs="1" name="UmEnabled" type="xs:boolean"/>
                    <xs:element minOccurs="1"
maxOccurs="1" name="PlayOnPhoneDialString" type="xs:string"/>
                    <xs:element minOccurs="1"
maxOccurs="1" name="PlayOnPhoneEnabled" type="xs:boolean"/>
                </xs:sequence>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
    <xs:complexType name="ServiceConfiguration"/>
    <xs:complexType name="BaseItemIdType"
abstract="true"/>
    <xs:complexType name="ItemIdType">
        <xs:complexContent>
            <xs:extension base="t:BaseItemIdType">
                <xs:attribute name="Id"
type="xs:string" use="required"/>
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>

```

```

                                <xs:attribute name="ChangeKey"
type="xs:string" use="optional"/>
                                </xs:extension>
                                </xs:complexContent>
                                </xs:complexType>
                                </xs:schema>
</wsdl:types>
<wsdl:message name="IsUMEnabledSoapIn">
    <wsdl:part name="parameters" element="tns:IsUMEnabled"/>
</wsdl:message>
<wsdl:message name="IsUMEnabledSoapOut">
    <wsdl:part name="parameters"
element="tns:IsUMEnabledResponse"/>
</wsdl:message>
<wsdl:message name="GetUMPropertiesSoapIn">
    <wsdl:part name="parameters"
element="tns:GetUMProperties"/>
</wsdl:message>
<wsdl:message name="GetUMPropertiesSoapOut">
    <wsdl:part name="parameters"
element="tns:GetUMPropertiesResponse"/>
</wsdl:message>
<wsdl:message name="SetOofStatusSoapIn">
    <wsdl:part name="parameters" element="tns:SetOofStatus"/>
</wsdl:message>
<wsdl:message name="SetOofStatusSoapOut">
    <wsdl:part name="parameters"
element="tns:SetOofStatusResponse"/>
</wsdl:message>
<wsdl:message name="SetPlayOnPhoneDialStringSoapIn">
    <wsdl:part name="parameters"
element="tns:SetPlayOnPhoneDialString"/>
</wsdl:message>
<wsdl:message name="SetPlayOnPhoneDialStringSoapOut">
    <wsdl:part name="parameters"
element="tns:SetPlayOnPhoneDialStringResponse"/>
</wsdl:message>
<wsdl:message name="SetTelephoneAccessFolderEmailSoapIn">
    <wsdl:part name="parameters"
element="tns:SetTelephoneAccessFolderEmail"/>
</wsdl:message>
<wsdl:message name="SetTelephoneAccessFolderEmailSoapOut">
    <wsdl:part name="parameters"
element="tns:SetTelephoneAccessFolderEmailResponse"/>
</wsdl:message>
<wsdl:message name="SetMissedCallNotificationEnabledSoapIn">
    <wsdl:part name="parameters"
element="tns:SetMissedCallNotificationEnabled"/>

```

```

    </wsdl:message>
    <wsdl:message name="SetMissedCallNotificationEnabledSoapOut">
        <wsdl:part name="parameters"
element="tns:SetMissedCallNotificationEnabledResponse"/>
    </wsdl:message>
    <wsdl:message name="ResetPINSoapIn">
        <wsdl:part name="parameters" element="tns:ResetPIN"/>
    </wsdl:message>
    <wsdl:message name="ResetPINSoapOut">
        <wsdl:part name="parameters"
element="tns:ResetPINResponse"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneSoapIn">
        <wsdl:part name="parameters" element="tns:PlayOnPhone"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneSoapOut">
        <wsdl:part name="parameters"
element="tns:PlayOnPhoneResponse"/>
    </wsdl:message>
    <wsdl:message name="GetCallInfoSoapIn">
        <wsdl:part name="parameters" element="tns:GetCallInfo"/>
    </wsdl:message>
    <wsdl:message name="GetCallInfoSoapOut">
        <wsdl:part name="parameters"
element="tns:GetCallInfoResponse"/>
    </wsdl:message>
    <wsdl:message name="DisconnectSoapIn">
        <wsdl:part name="parameters" element="tns:Disconnect"/>
    </wsdl:message>
    <wsdl:message name="DisconnectSoapOut">
        <wsdl:part name="parameters"
element="tns:DisconnectResponse"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneGreetingSoapIn">
        <wsdl:part name="parameters"
element="tns:PlayOnPhoneGreeting"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneGreetingSoapOut">
        <wsdl:part name="parameters"
element="tns:PlayOnPhoneGreetingResponse"/>
    </wsdl:message>
    <wsdl:message name="DisconnectPhoneCallSoapIn">
        <wsdl:part name="request"
element="tns:DisconnectPhoneCall"/>
        <wsdl:part name="Impersonation"
element="t:ExchangeImpersonation"/>
        <wsdl:part name="MailboxCulture"
element="t:MailboxCulture"/>

```

```

        <wsdl:part name="RequestVersion"
element="t:RequestServerVersion"/>
    </wsdl:message>
    <wsdl:message name="DisconnectPhoneCallSoapOut">
        <wsdl:part name="DisconnectPhoneCallResult"
element="tns:DisconnectPhoneCallResponse"/>
        <wsdl:part name="ServerVersion"
element="t:ServerVersionInfo"/>
    </wsdl:message>
    <wsdl:message name="GetPhoneCallInformationSoapIn">
        <wsdl:part name="request"
element="tns:GetPhoneCallInformation"/>
        <wsdl:part name="Impersonation"
element="t:ExchangeImpersonation"/>
        <wsdl:part name="MailboxCulture"
element="t:MailboxCulture"/>
        <wsdl:part name="RequestVersion"
element="t:RequestServerVersion"/>
    </wsdl:message>
    <wsdl:message name="GetPhoneCallInformationSoapOut">
        <wsdl:part name="GetPhoneCallInformationResult"
element="tns:GetPhoneCallInformationResponse"/>
        <wsdl:part name="ServerVersion"
element="t:ServerVersionInfo"/>
    </wsdl:message>
    <wsdl:message name="GetServiceConfigurationSoapIn">
        <wsdl:part name="request"
element="tns:GetServiceConfiguration"/>
        <wsdl:part name="Impersonation"
element="t:ExchangeImpersonation"/>
        <wsdl:part name="RequestVersion"
element="t:RequestServerVersion"/>
        <wsdl:part name="MailboxCulture"
element="t:MailboxCulture"/>
    </wsdl:message>
    <wsdl:message name="GetServiceConfigurationSoapOut">
        <wsdl:part name="GetServiceConfigurationResult"
element="tns:GetServiceConfigurationResponse"/>
        <wsdl:part name="ServerVersion"
element="t:ServerVersionInfo"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneSoapIn2">
        <wsdl:part name="request" type="tns:PlayOnPhone2Type"/>
        <wsdl:part name="Impersonation"
element="t:ExchangeImpersonation"/>
        <wsdl:part name="MailboxCulture"
element="t:MailboxCulture"/>

```

```

        <wsdl:part name="RequestVersion"
element="t:RequestServerVersion"/>
    </wsdl:message>
    <wsdl:message name="PlayOnPhoneSoapOut2">
        <wsdl:part name="PlayOnPhoneResult"
type="tns:PlayOnPhoneResponse2Type"/>
        <wsdl:part name="ServerVersion"
element="t:ServerVersionInfo"/>
    </wsdl:message>
    <wsdl:portType name="UMWebServiceSoap">
        <wsdl:operation name="IsUMEnabled">
            <wsdl:input message="tns:IsUMEnabledSoapIn"/>
            <wsdl:output message="tns:IsUMEnabledSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="GetUMProperties">
            <wsdl:input message="tns:GetUMPropertiesSoapIn"/>
            <wsdl:output message="tns:GetUMPropertiesSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="SetOofStatus">
            <wsdl:input message="tns:SetOofStatusSoapIn"/>
            <wsdl:output message="tns:SetOofStatusSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="SetPlayOnPhoneDialString">
            <wsdl:input
message="tns:SetPlayOnPhoneDialStringSoapIn"/>
            <wsdl:output
message="tns:SetPlayOnPhoneDialStringSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="SetTelephoneAccessFolderEmail">
            <wsdl:input
message="tns:SetTelephoneAccessFolderEmailSoapIn"/>
            <wsdl:output
message="tns:SetTelephoneAccessFolderEmailSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="SetMissedCallNotificationEnabled">
            <wsdl:input
message="tns:SetMissedCallNotificationEnabledSoapIn"/>
            <wsdl:output
message="tns:SetMissedCallNotificationEnabledSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="ResetPIN">
            <wsdl:input message="tns:ResetPINSoapIn"/>
            <wsdl:output message="tns:ResetPINSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="PlayOnPhone">
            <wsdl:input message="tns:PlayOnPhoneSoapIn"/>
            <wsdl:output message="tns:PlayOnPhoneSoapOut"/>
        </wsdl:operation>

```

```

        <wsdl:operation name="GetCallInfo">
            <wsdl:input message="tns:GetCallInfoSoapIn"/>
            <wsdl:output message="tns:GetCallInfoSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="Disconnect">
            <wsdl:input message="tns:DisconnectSoapIn"/>
            <wsdl:output message="tns:DisconnectSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="PlayOnPhoneGreeting">
            <wsdl:input message="tns:PlayOnPhoneGreetingSoapIn"/>
            <wsdl:output
message="tns:PlayOnPhoneGreetingSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="DisconnectPhoneCall">
            <wsdl:input message="tns:DisconnectPhoneCallSoapIn"/>
            <wsdl:output
message="tns:DisconnectPhoneCallSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="GetPhoneCallInformation">
            <wsdl:input
message="tns:GetPhoneCallInformationSoapIn"/>
            <wsdl:output
message="tns:GetPhoneCallInformationSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="GetServiceConfiguration">
            <wsdl:input
message="tns:GetServiceConfigurationSoapIn"/>
            <wsdl:output
message="tns:GetServiceConfigurationSoapOut"/>
        </wsdl:operation>
        <wsdl:operation name="PlayOnPhone2">
            <wsdl:input message="tns:PlayOnPhoneSoapIn2"/>
            <wsdl:output message="tns:PlayOnPhoneSoapOut2"/>
        </wsdl:operation>
    </wsdl:portType>
    <wsdl:binding name="UMWebServiceSoap"
type="tns:UMWebServiceSoap">
        <wsdl:documentation>
            <wsi:Claim conformsTo="http://ws-
i.org/profiles/basic/1.1" xmlns:wsi="http://ws-
i.org/schemas/conformanceClaim/" />
        </wsdl:documentation>
        <soap:binding
transport="http://schemas.xmlsoap.org/soap/http"/>
        <wsdl:operation name="IsUMEnabled">
            <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/IsUMEnabled" style="document"/>

```

```

        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetUMProperties">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetUMProperties" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetOofStatus">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetOofStatus" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetPlayOnPhoneDialString">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetPlayOnPhoneDialString" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetTelephoneAccessFolderEmail">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetTelephoneAccessFolderEmail" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>

```

```

        <soap:body use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetMissedCallNotificationEnabled">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/SetMissedCallNotificationEnabled" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="ResetPIN">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/ResetPIN" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="PlayOnPhone">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/PlayOnPhone" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="GetCallInfo">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/GetCallInfo" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
<wsdl:operation name="Disconnect">

```

```

        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/Disconnect" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="PlayOnPhoneGreeting">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhoneGreeting" style="document"/>
        <wsdl:input>
            <soap:body use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="PlayOnPhone2">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/PlayOnPhone"/>
        <wsdl:input>
            <soap:body parts="request" use="literal"/>
            <soap:header message="tns:PlayOnPhoneSoapIn2"
part="Impersonation" use="literal"/>
            <soap:header message="tns:PlayOnPhoneSoapIn2"
part="MailboxCulture" use="literal"/>
            <soap:header message="tns:PlayOnPhoneSoapIn2"
part="RequestVersion" use="literal"/>
        </wsdl:input>
        <wsdl:output>
            <soap:body parts="PlayOnPhoneResult"
use="literal"/>
            <soap:header message="tns:PlayOnPhoneSoapOut2"
part="ServerVersion" use="literal"/>
        </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetPhoneCallInformation">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetPhoneCallInformation"/>
        <wsdl:input>
            <soap:body parts="request" use="literal"/>

```

```

                <soap:header
message="tns:GetPhoneCallInformationSoapIn" part="Impersonation"
use="literal"/>
                <soap:header
message="tns:GetPhoneCallInformationSoapIn" part="MailboxCulture"
use="literal"/>
                <soap:header
message="tns:GetPhoneCallInformationSoapIn" part="RequestVersion"
use="literal"/>
        </wsdl:input>
        <wsdl:output>
                <soap:body
parts="GetPhoneCallInformationResult" use="literal"/>
                <soap:header
message="tns:GetPhoneCallInformationSoapOut" part="ServerVersion"
use="literal"/>
        </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DisconnectPhoneCall">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/DisconnectPhoneCall"/>
        <wsdl:input>
                <soap:body parts="request" use="literal"/>
                <soap:header
message="tns:DisconnectPhoneCallSoapIn" part="Impersonation"
use="literal"/>
                <soap:header
message="tns:DisconnectPhoneCallSoapIn" part="MailboxCulture"
use="literal"/>
                <soap:header
message="tns:DisconnectPhoneCallSoapIn" part="RequestVersion"
use="literal"/>
        </wsdl:input>
        <wsdl:output>
                <soap:body parts="DisconnectPhoneCallResult"
use="literal"/>
                <soap:header
message="tns:DisconnectPhoneCallSoapOut" part="ServerVersion"
use="literal"/>
        </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetServiceConfiguration">
        <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/message
s/GetServiceConfiguration"/>
        <wsdl:input>
                <soap:body parts="request" use="literal"/>

```

```

                <soap:header
message="tns:GetServiceConfigurationSoapIn" part="Impersonation"
use="literal"/>
                <soap:header
message="tns:GetServiceConfigurationSoapIn" part="RequestVersion"
use="literal"/>
                <soap:header
message="tns:GetServiceConfigurationSoapIn" part="MailboxCulture"
use="literal"/>
        </wsdl:input>
        <wsdl:output>
                <soap:body
parts="GetServiceConfigurationResult" use="literal"/>
                <soap:header
message="tns:GetServiceConfigurationSoapOut" part="ServerVersion"
use="literal"/>
        </wsdl:output>
    </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

7 Appendix B: Office/Exchange Behavior

The information in this specification is applicable to the following versions of Office/Exchange:

- Microsoft Office Outlook 2007
- Microsoft Exchange Server 2007
- Microsoft Outlook 2010
- Microsoft Exchange Server 2010

Exceptions, if any, are noted below. Unless otherwise specified, any statement of optional behavior in this specification prescribed using the terms SHOULD or SHOULD NOT implies Office/Exchange behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies Office/Exchange does not follow the prescription.

<1> Section 3.1.4.1: Exchange Server 2007 and Outlook 2007 do not use the **DisconnectPhoneCall** operation.

<2> Section 3.1.4.4: Exchange Server 2007 and Outlook 2007 do not use the **GetPhoneCallInformation** operation.

<3> Section 3.1.4.5: Exchange Server 2007 and Outlook 2007 do not use the **GetServiceConfiguration** operation.

<4> Section 3.1.4.4: Outlook 2003, Outlook 2007, and Outlook 2010 clients do not use the IsUMEnabled operation. For more details specific to the Outlook client implementation of voice mail settings, see [MS-OXOUM].

<5> 3.1.4.8: Exchange Server 2007 and Outlook 2007 do not use the **PlayOnPhone2** operation.

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