[MS-OXWSCOS]:

Unified Contact Store Web Service Protocol

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation ("this documentation") for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
- **Copyrights**. This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
- **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
- **Patents**. Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft Open Specifications Promise or the Microsoft Community Promise. If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **License Programs**. To see all of the protocols in scope under a specific license program and the associated patents, visit the Patent Map.
- **Trademarks**. The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit www.microsoft.com/trademarks.
- **Fictitious Names**. The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

Support. For questions and support, please contact dochelp@microsoft.com.

Revision Summary

Date	Revision History	Revision Class	Comments
7/16/2012	0.1	New	Released new document.
10/8/2012	1.0	Major	Significantly changed the technical content.
2/11/2013	2.0	Major	Significantly changed the technical content.
7/26/2013	2.0	None	No changes to the meaning, language, or formatting of the technical content.
11/18/2013	2.0	None	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	2.0	None	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	3.0	Major	Significantly changed the technical content.
7/31/2014	3.1	Minor	Clarified the meaning of the technical content.
10/30/2014	3.2	Minor	Clarified the meaning of the technical content.
5/26/2015	3.2	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2015	3.2	None	No changes to the meaning, language, or formatting of the technical content.
6/13/2016	3.2	None	No changes to the meaning, language, or formatting of the technical content.
9/14/2016	3.2	None	No changes to the meaning, language, or formatting of the technical content.
7/24/2018	4.0	Major	Significantly changed the technical content.
10/1/2018	5.0	Major	Significantly changed the technical content.
8/17/2021	6.0	Major	Significantly changed the technical content.
2/15/2022	6.0	None	No changes to the meaning, language, or formatting of the technical content.
5/17/2022	6.1	Minor	Clarified the meaning of the technical content.

Table of Contents

1 Introduction

The Unified Contact Store Web Service Protocol enables clients to use a **web service** to create, retrieve, update, and delete **instant messaging contacts (2)** and groups.

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

1.1 Glossary

This document uses the following terms:

Active Directory object: A set of directory objects that are used within Active Directory as defined in [MS-ADTS] section 3.1.1. An **Active Directory object** can be identified by a dsname. See also directory object.

contact: (1) A presence entity (presentity) whose presence information can be tracked.

(2) A person, company, or other entity that is stored in a directory and is associated with one or more unique identifiers and attributes, such as an Internet message address or login name.

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

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

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

instant messaging: A method of real-time communication over the Internet in which a sender types a message to one or more recipients and the recipient immediately receives the message in a pop-up window.

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

Session Initiation Protocol (SIP): An application-layer control (signaling) protocol for creating, modifying, and terminating sessions with one or more participants. **SIP** is defined in [RFC3261].

Simple Mail Transfer Protocol (SMTP): A member of the TCP/IP suite of protocols that is used to transport Internet messages, as described in [RFC5321].

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [SOAP1.2-1/2003].

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

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

SOAP header: A mechanism for implementing extensions to a SOAP message in a decentralized manner without prior agreement between the communicating parties. See [SOAP1.2-1/2007] section 5.2 for more information.

Uniform Resource Identifier (URI): A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [RFC3986].

web server: A server computer that hosts websites and responds to requests from applications.

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

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

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

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

WSDL port type: A named set of logically-related, abstract **Web Services Description Language (WSDL)** operations and messages.

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

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

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

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

1.2 References

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

1.2.1 Normative References

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

[MS-OXDSCLI] Microsoft Corporation, "Autodiscover Publishing and Lookup Protocol".

[MS-OXWSADISC] Microsoft Corporation, "Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol".

[MS-OXWSBTRF] Microsoft Corporation, "Bulk Transfer Web Service Protocol".

[MS-OXWSCDATA] Microsoft Corporation, "Common Web Service Data Types".

[MS-OXWSCORE] Microsoft Corporation, "Core Items Web Service Protocol".

[MS-OXWSPERS] Microsoft Corporation, "Persona Web Service Protocol".

[MS-OXWSXPROP] Microsoft Corporation, "Extended Properties Structure".

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

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, https://www.rfc-editor.org/info/rfc2616

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

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", BCP 47, RFC 3066, January 2001, http://www.ietf.org/rfc/rfc3066.txt

[RFC3966] Schulzrinne, H., "The tel URI for Telephone Numbers", RFC 3966, December 2004, http://www.rfc-editor.org/rfc/rfc3966.txt

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, https://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, https://www.w3.org/TR/2001/NOTE-wsdl-20010315

[WSIBASIC] Ballinger, K., Ehnebuske, D., Gudgin, M., et al., Eds., "Basic Profile Version 1.0", Final Material, April 2004, http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html

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

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

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

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

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

1.2.2 Informative References

[MS-OXPROTO] Microsoft Corporation, "Exchange Server Protocols System Overview".

[MS-OXWSEDISC] Microsoft Corporation, "Electronic Discovery (eDiscovery) Web Service Protocol".

1.3 Overview

The Unified Contact Store is a centralized storage mechanism for **contacts (2)** for **instant messaging** clients. It provides two folders: ImContactList and QuickContacts. The ImContactList folder contains groups, which in turn contain contacts (2). In a typical contact list, a user-created distribution list represents the groups in the contact list. The contacts are stored in the QuickContacts folder. These contacts contain the information displayed in the contact list; for example, display name, instant messaging address, phone number, and so on.

The Unified Contact Store Web Service Protocol simplifies integration with the Unified Contact Store. This protocol provides operations for adding and removing instant messaging groups by adding and removing user-created distribution lists in the ImContactList folder. It also provides operations for adding, removing, and changing the group of a contact (2) in the instant messaging groups by adding or removing a contact in the QuickContact folder, and then modifying the membership in the user-created distribution list in the ImContactList folder. This enables instant messaging clients to store, access, and make changes to instant messaging contact lists without requiring additional calls and business logic.

1.4 Relationship to Other Protocols

A client that implements this protocol can use the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], to identify the target **endpoint** to use for each operation.

This protocol uses **SOAP**, as described in [SOAP1.1], to specify the structure information that is exchanged between the client and the server. This protocol uses the **XML schema**, as described in [XMLSCHEMA1] and [XMLSCHEMA2], to describe the message content that is sent to and from the server.

This protocol uses SOAP over **HTTP**, as described in [RFC2616], and SOAP over **HTTPS**, as described in [RFC2818], as shown in the following layering diagram.
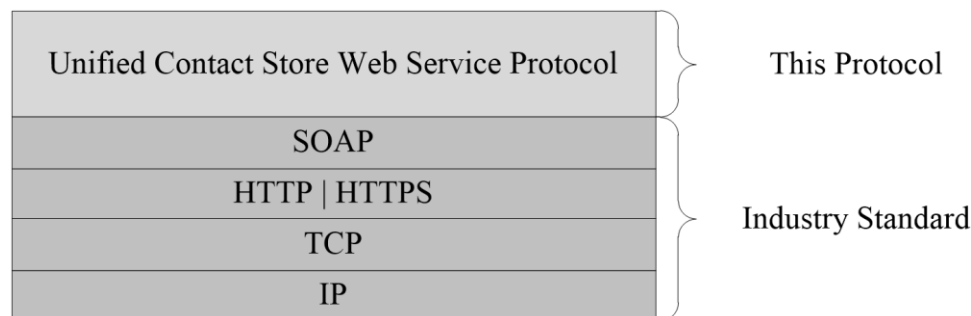
Figure 1: This protocol in relation to other protocols

The Electronic Discovery (eDiscovery) Web Service Protocol, as described in [MS-OXWSEDISC], uses the extended **Uniform Resource Identifier (URI)** information provided by this protocol.

This protocol uses information about personas provided by the Persona Web Service Protocol, as described in [MS-OXWSPERS].

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [MS-OXPROTO].

1.5 Prerequisites/Preconditions

The operations that this protocol defines cannot be accessed unless the correct **endpoint** is identified in the **HTTP** web requests that target this protocol. This endpoint URL is returned by either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol, as specified in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as specified in [MS-OXDSCLI].

1.6 Applicability Statement

This protocol is applicable to environments that use **web services** to implement the Unified Contact Store. This protocol is applicable to all **SOAP**-based clients, as described in [SOAP1.1].

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses SOAP 1.1, as described in section 2.1.

- **Protocol Versions:** This protocol describes only one **WSDL port type** version. The **RequestServerVersion** element, as described in [MS-OXWSCDATA] section 2.2.3.9, identifies the WSDL port type version of the request. The **ServerVersionInfo** element, as described in [MS-OXWSCDATA] section 2.2.3.10, identifies the version of the server that is responding to the request.

- **Security and Authentication Methods:** This protocol relies on the **web server** that is hosting it to perform authentication.

- **Localization:** This protocol uses the **MailboxCulture** element, as described in [MS-OXWSCDATA] section 2.2.3.6, to specify the culture of a **mailbox**.

- **Capability Negotiation**: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

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

2.1 Transport

This protocol uses SOAP 1.1, as specified in [SOAP1.1].

This protocol MUST support **SOAP** over **HTTP**, as specified in [RFC2616]. The protocol SHOULD use secure communications by means of **HTTPS**, as specified in [RFC2818].

2.2 Common Message Syntax

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

2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
t	http://schemas.microsoft.com/exchange/services/2006/types	
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsi	http://ws-i.org/schemas/conformanceClaim/	[WSIBASIC]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1/2] [XMLSCHEMA2/2]

2.2.2 Messages

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

2.2.3 Elements

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

2.2.4 Complex Types

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

Complex type	Description
ArrayOfImGroupType	The **ArrayOfImGroupType** complex type specifies an array of **instant messaging** groups.
ImGroupType	The **ImGroupType** complex type specifies an instant messaging group.
ImItemListType	The **ImItemListType** complex type specifies an array of groups of **ImGroupType** complex types and an array of personas.
NonEmptyArrayOfExtendedFieldURIs	The **NonEmptyArrayOfExtendedFieldURIs** complex type specifies an array of extended **URIs**.

2.2.4.1 ArrayOfImGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ArrayOfImGroupType** complex type specifies an array of **instant messaging** groups.

```
<xs:complexType name="ArrayOfImGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element name="ImGroup" type="t:ImGroupType"/>
  </xs:choice>
</xs:complexType>
```

ImGroup: An element of type **ImGroupType**, as defined in section 2.2.4.2, that represents a single instant messaging group.

2.2.4.2 ImGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ImGroupType** complex type specifies an **instant messaging** group.

```
<xs:complexType name="ImGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
    <xs:element name="GroupType" type="t:NonEmptyStringType"/>
    <xs:element minOccurs="0" name="ExchangeStoreId" type="t:ItemIdType"/>
    <xs:element minOccurs="0" name="MemberCorrelationKey"
type="t:NonEmptyArrayOfItemIdsType"/>
    <xs:element minOccurs="0" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedPropertyType"/>
    <xs:element minOccurs="0" name="SmtpAddress" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

DisplayName: A element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the display name for a new instant messaging group.

GroupType: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that identifies the group class. The following table lists the allowable values for this string.

Value	Description
IPM.DistList.MOC.Tagged	Represents the Tagged group that lists the tagged **contacts (2)**.
IPM.DistList.MOC.OtherContacts	Represents the OtherContacts group that lists the remainder of contacts (2) not in any other group.
IPM.DistList.MOC.UserGroup	Represents any user-created group that is not a distribution group.
IPM.DistList.MOC.DG	Represents any user-created distribution group.
IPM.DistList.MOC.Favorites	Represents the Favorites group that lists the favorite contacts (2).

The value can contain only one Tagged group, one OtherContacts group, and one Favorites group.

ExchangeStoreId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25,that represents the instant messaging group identifier.

MemberCorrelationKey: An element of type **NonEmptyArrayOfItemIdsType**, as defined in [MS-OXWSBTRF] section 3.1.4.1.3.4, that represents the identifiers of the contacts (2) that are part of the group.

ExtendedProperties: An element of type **NonEmptyArrayOfExtendedPropertyType**, as defined in [MS-OXWSXPROP] section 2.1.3, that contains an array of additional properties.

SmtpAddress: An element of type **xs:string**, as defined in [XMLSCHEMA2], that represents the **SMTP** address of the group.

2.2.4.3 ImItemListType

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **ImItemListType** complex type specifies an array of groups of **ImGroupType** complex types and an array of personas.

```
<xs:complexType name="ImItemListType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Groups" type="t:ArrayOfImGroupType"/>
    <xs:element minOccurs="0" name="Personas" type="t:ArrayOfPeopleType"/>
  </xs:sequence>
</xs:complexType>
```

Groups: An element of type **ArrayOfImGroupType**, as defined in section 2.2.4.1, that represents an array of **instant messaging** groups.

Personas: An element of type **ArrayOfPeopleType**, as defined in [MS-OXWSPERS] section 3.1.4.1.3.4, that represents an array of **contacts (2)**.

2.2.4.4 NonEmptyArrayOfExtendedFieldURIs

Namespace: http://schemas.microsoft.com/exchange/services/2006/types

The **NonEmptyArrayOfExtendedFieldURIs** complex type specifies an array of extended **URIs**.

```
<xs:complexType name="NonEmptyArrayOfExtendedFieldURIs"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:choice maxOccurs="unbounded">
    <xs:element name="ExtendedProperty" type="t:PathToExtendedFieldType"/>
  </xs:choice>
</xs:complexType>
```

ExtendedProperty: An element of type **PathToExtendedFieldType**, as defined in [MS-OXWSXPROP] section 2.1.6, that represents an extended property for the Unified Contact Store. Extended properties are typically private properties on **contacts (2)** that are used for application-specific functions.

2.2.5 Simple Types

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

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

3.1 ExchangeServicePortType Server Details

This protocol defines a single **WSDL port type** and operations to manage **instant messaging** contacts and distribution groups.

3.1.1 Abstract Data Model

None.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

Operation	Description
AddDistributionGroupToImList	The **AddDistributionGroupToImList WSDL operation** creates a new **instant messaging** distribution group.
AddImContactToGroup	The **AddImContactToGroup** WSDL operation adds an existing **contact (2)** to an instant messaging group.
AddImGroup	The **AddImGroup** WSDL operation creates a new instant messaging group in a **mailbox**.
AddNewImContactToGroup	The **AddNewImContactToGroup** WSDL operation adds a new contact (2) to an instant messaging group.
AddNewTelUriContactToGroup	The **AddNewTelUriContactToGroup** WSDL operation adds a new TEL URI ([RFC3966]) contact (2) to a group.
GetImItemList	The **GetImItemList** WSDL operation retrieves all data for instant messaging groups and contacts (2) in the contact list.
GetImItems	The **GetImItems** WSDL operation retrieves groups and contacts (2) for the specified identifiers.

Operation	Description
RemoveContactFromImList	The **RemoveContactFromImList** WSDL operation removes the specified contact (2) from all instant messaging groups.
RemoveDistributionGroupFromImList	The **RemoveDistributionGroupFromImList** WSDL operation removes a distribution group from an instant messaging list.
RemoveImContactFromGroup	The **RemoveImContactFromGroup** WSDL operation removes an instant messaging contact (2) from a group if the contact (2) is only a member of the specified group, excluding the Tagged group. If the Tagged group is the specified group, and the contact (2) is a member of the Tagged group only, the contact (2) is removed.
RemoveImGroup	The **RemoveImGroup** WSDL operation removes the instant messaging group and all the contacts (2) in the group. A contact (2) is deleted if it is a member of only the specified group, excluding the Tagged group. If the Tagged group is the specified group and the contact (2) is a member of the Tagged group only, the contact (2) is removed.
SetImGroup	The **SetImGroup** WSDL operation changes the display name of an instant messaging group.
SetImListMigrationCompleted	The **SetImListMigrationCompleted** WSDL operation indicates whether the instant messaging contacts (2) in a mailbox have been migrated to the server.

3.1.4.1 AddDistributionGroupToImList

The **AddDistributionGroupToImList WSDL operation** creates a new **instant messaging** distribution group.

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

```
<wsdl:operation name="AddDistributionGroupToImList"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddDistributionGroupToImListSoapIn"/>
  <wsdl:output message="tns:AddDistributionGroupToImListSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **AddDistributionGroupToImList** WSDL operation.

```
<wsdl:operation name="AddDistributionGroupToImList"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddDistributionGroup
ToImList" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
```

```
   <wsdl:output>
     <soap:body use="literal" parts="AddDistributionGroupToImListResult"
   xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
     <soap:header message="tns:AddDistributionGroupToImListSoapOut" part="ServerVersion"
   use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
   </wsdl:output>
</wsdl:operation>
```

This operation does not create a distribution group if a distribution group exists that has the same **SMTP** address.

The protocol client sends an **AddDistributionGroupToImListSoapIn** request **WSDL message** and the protocol server responds with an **AddDistributionGroupToImListSoapOut** response WSDL message.

3.1.4.1.1 Messages

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

Message	Description
AddDistributionGroupToImListSoapIn	Specifies the request to add a distribution group to the **instant messaging** list.
AddDistributionGroupToImListSoapOut	Specifies the response to the **AddDistributionGroupToImListSoapIn** request WSDL message.

3.1.4.1.1.1   AddDistributionGroupToImListSoapIn

The **AddDistributionGroupToImListSoapIn WSDL message** specifies the request to add a distribution group to the **instant messaging** list.

The following is the **AddDistributionGroupToImListSoapIn** WSDL message specification.

```
<wsdl:message name="AddDistributionGroupToImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:AddDistributionGroupToImList"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**AddDistributionGroupToImList**	Specifies the **SOAP body** of the request to add a distribution group.
Impersonation	**ExchangeImpersonation**	Specifies a **SOAP header** that identifies the user whom

Part name	Element/type	Description
	([MS-OXWSCDATA] section 2.2.3.3)	the client is impersonating.
MailboxCulture	**MailboxCulture** [MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use when accessing the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **AddDistributionGroupToImList WSDL operation** request.

3.1.4.1.1.2   AddDistributionGroupToImListSoapOut

The **AddDistributionGroupToImListSoapOut WSDL message** specifies the response to the **AddDistributionGroupToImListSoapIn** request WSDL message.

The following is the **AddDistributionGroupToImListSoapOut** WSDL message specification.

```
<wsdl:message name="AddDistributionGroupToImListSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="AddDistributionGroupToImListResult"
element="tns:AddDistributionGroupToImListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **AddDistributionGroupToImListSoapOut** WSDL message is the output message for the **SOAP action**
http://schemas.microsoft.com/exchange/services/2006/messages/AddDistributionGroupToImList.

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

Part name	Element/type	Description
AddDistributionGroupToImListResult	**AddDistributionGroupToImListResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **AddDistributionGroupToImList WSDL operation** request returns an **AddDistributionGroupToImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddDistributionGroupToImListResponse** element is set to "NoError".

If the **AddDistributionGroupToImList** WSDL operation is not successful, it returns an **AddDistributionGroupToImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddDistributionGroupToImListResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.1.2 Elements

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

Element	Description
AddDistributionGroupToImList	The input data for the **AddDistributionGroupToImList WSDL operation**.
AddDistributionGroupToImListResponse	The result data for the **AddDistributionGroupToImList** WSDL operation.

3.1.4.1.2.1   AddDistributionGroupToImList

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

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

3.1.4.1.2.2   AddDistributionGroupToImListResponse

The **AddDistributionGroupToImListResponse** element specifies the result data for the **AddDistributionGroupToImList WSDL operation**.

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

3.1.4.1.3 Complex Types

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

Complex type	Description
AddDistributionGroupToImListResponseMessageType	Specifies the response message for the **AddDistributionGroupToImList** operation.
AddDistributionGroupToImListType	Specifies a distribution group to be added to the **instant messaging** list.

3.1.4.1.3.1   AddDistributionGroupToImListType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddDistributionGroupToImListType** complex type specifies a distribution group to be added to the **instant messaging** list. The **AddDistributionGroupToImListType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="AddDistributionGroupToImListType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="SmtpAddress" type="t:NonEmptyStringType"/>
        <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

SmtpAddress: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the **SMTP** address of the group.

DisplayName: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the display name of the group.

3.1.4.1.3.2   AddDistributionGroupToImListResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddDistributionGroupToImListResponseMessageType** complex type specifies the response message for the **AddDistributionGroupToImList** operation. The **AddDistributionGroupToImListResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="AddDistributionGroupToImListResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ImGroup" type="t:ImGroupType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImGroup: An element of type **ImGroupType**, as defined in section 2.2.4.2, that represents a single **instant messaging** group.

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 AddImContactToGroup

The **AddImContactToGroup WSDL operation** adds an existing **contact (2)** to an **instant messaging** group.

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

```
<wsdl:operation name="AddImContactToGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddImContactToGroupSoapIn"/>
  <wsdl:output message="tns:AddImContactToGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **AddImContactToGroup** WSDL operation.

```
<wsdl:operation name="AddImContactToGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddImContactToGroup"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:AddImContactToGroupSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImContactToGroupSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImContactToGroupSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="AddImContactToGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImContactToGroupSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

This operation accepts only existing contacts. The **AddNewImContactToGroup** (section 3.1.4.4) or the **AddNewTelUriContactToGroup** (section 3.1.4.5) operation can be used to add a new instant messaging contact (2) to the Unified Contact Store.

The protocol client sends an **AddImContactToGroupSoapIn** request **WSDL message** and the protocol server responds with an **AddImContactToGroupSoapOut** response WSDL message.

3.1.4.2.1 Messages

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

Message	Description
AddImContactToGroupSoapIn	Specifies the request to add an **instant messaging contact (2)** to a group.
AddImContactToGroupSoapOut	Specifies the response to the **AddImContactToGroupSoapIn** request WSDL message.

3.1.4.2.1.1   AddImContactToGroupSoapIn

The **AddImContactToGroupSoapIn WSDL message** specifies the request to add an **instant messaging contact (2)** to a group.

The following is the **AddImContactToGroupSoapIn** WSDL message specification.

```
<wsdl:message name="AddImContactToGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:AddImContactToGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**AddImContactToGroup**	Specifies the **SOAP body** of the request to add an instant messaging contact (2) to a group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** [MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **AddImContactToGroup WSDL operation** request.

3.1.4.2.1.2   AddImContactToGroupSoapOut

The **AddImContactToGroupSoapOut WSDL message** specifies the response to the **AddImContactToGroupSoapIn** request WSDL message.

The following is the **AddImContactToGroupSoapOut** WSDL message specification.

```
<wsdl:message name="AddImContactToGroupSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="AddImContactToGroupResult" element="tns:AddImContactToGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **AddImContactToGroupSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/AddImContactToGroup.

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

Part name	Element/type	Description
AddImContactToGroupResult	**AddImContactToGroupResponse**	Specifies the **SOAP body** of the

Part name	Element/type	Description
		response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **AddImContactToGroup WSDL operation** request returns an **AddImContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddImContactToGroupResponse** element is set to "NoError".

If the **AddImContactToGroup** WSDL operation is not successful, it returns an **AddImContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddImContactToGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.2.2 Elements

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

Element	Description
AddImContactToGroup	The input data for the **AddImContactToGroup WSDL operation**.
AddImContactToGroupResponse	The result data for the **AddImContactToGroup** WSDL operation.

3.1.4.2.2.1   AddImContactToGroup

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

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

3.1.4.2.2.2   AddImContactToGroupResponse

The **AddImContactToGroupResponse** element specifies the result data for the **AddImContactToGroup WSDL operation**.

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

3.1.4.2.3 Complex Types

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

Complex type	Description
AddImContactToGroupResponseMessageType	Specifies the response message for the **AddImContactToGroup** operation.
AddImContactToGroupType	Specifies a request to add an **instant messaging contact (2)** to a group.

3.1.4.2.3.1   AddImContactToGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddImContactToGroupType** complex type specifies a request to add an **instant messaging contact (2)** to a group. The **AddImContactToGroupType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="AddImContactToGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="ContactId" type="t:ItemIdType"/>
        <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ContactId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the contact (2).

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the group.

3.1.4.2.3.2   AddImContactToGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddImContactToGroupResponseMessageType** complex type specifies the response message for the **AddImContactToGroup** operation. The **AddImContactToGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="AddImContactToGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 AddImGroup

The **AddImGroup WSDL operation** creates a new **instant messaging** group in a **mailbox**.

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

```
<wsdl:operation name="AddImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddImGroupSoapIn"/>
  <wsdl:output message="tns:AddImGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **AddImGroup** WSDL operation.

```
<wsdl:operation name="AddImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddImGroup"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:AddImGroupSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImGroupSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImGroupSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="AddImGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddImGroupSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

This operation takes only a single display name parameter. This operation returns the display name, group type, and store identifier of the new group.

If an instant messaging group with the same display name exists, this operation returns information about that group. The operation fails if the maximum 64 groups already exist, excluding Tagged, OtherContacts, and Favorites groups.

The protocol client sends an **AddImGroupSoapIn** request **WSDL message** and the protocol server responds with an **AddImGroupSoapIn** response.

3.1.4.3.1 Messages

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

Message	Description
AddImGroupSoapIn	Specifies the request to add an **instant messaging** group.
AddImGroupSoapOut	Specifies the response to the **AddImGroupSoapIn** request WSDL message.

3.1.4.3.1.1   AddImGroupSoapIn

The **AddImGroupSoapIn WSDL message** specifies the request to add an **instant messaging** group.

The following is the **AddImGroupSoapIn** WSDL message specification.

```
<wsdl:message name="AddImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:AddImGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**AddImGroup**	Specifies the **SOAP body** of the request to add an instant messaging group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **AddImGroup WSDL operation** request.

3.1.4.3.1.2   AddImGroupSoapOut

The **AddImGroupSoapOut WSDL message** specifies the response to the **AddImGroupSoapIn** request WSDL message.

The following is the **AddImGroupSoapOut** WSDL message specification.

```
<wsdl:message name="AddImGroupSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="AddImGroupResult" element="tns:AddImGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **AddImGroupSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/AddImGroup.

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

Part name	Element/type	Description
AddImGroupResult	**AddImGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **AddImGroup WSDL operation** request returns an **AddImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddImGroupResponse** element is set to "NoError".

If the **AddImGroup** WSDL operation is not successful, it returns an **AddImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddImGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.3.2 Elements

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

Element	Description
AddImGroup	The input data for the **AddImGroup WSDL operation**.
AddImGroupResponse	The result data for the **AddImGroup** WSDL operation.

3.1.4.3.2.1   AddImGroup

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

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

3.1.4.3.2.2   AddImGroupResponse

The **AddImGroupResponse** element specifies the result data for the **AddImGroup WSDL operation**.

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

3.1.4.3.3 Complex Types

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

Complex type	Description
AddImGroupResponseMessageType	Specifies the response message for the **AddImGoup WSDL operation**.
AddImGroupType	Specifies a request to add an **instant messaging** group.

3.1.4.3.3.1 AddImGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddImGroupType** complex type specifies a request to add an **instant messaging** group. The **AddImGroupType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="AddImGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

DisplayName: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the display name of the instant messaging group.

3.1.4.3.3.2 AddImGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddImGroupResponseMessageType** complex type specifies the response message for the **AddImGoup WSDL operation**. The **AddImGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="AddImGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ImGroup" type="t:ImGroupType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImGroup: An element of type **ImGroupType**, as defined in section 2.2.4.2, that represents a single **instant messaging** group.

3.1.4.3.4 Simple Types

None.

3.1.4.3.5 Attributes

None.

3.1.4.3.6 Groups

None.

3.1.4.3.7 Attribute Groups

None.

3.1.4.4 AddNewImContactToGroup

The **AddNewImContactToGroup WSDL operation** adds a new **contact (2)** to an **instant messaging** group.

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

```
<wsdl:operation name="AddNewImContactToGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddNewImContactToGroupSoapIn"/>
  <wsdl:output message="tns:AddNewImContactToGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **AddNewImContactToGroup** WSDL operation.

```
<wsdl:operation name="AddNewImContactToGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddNewImContactToGro
up" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:AddNewImContactToGroupSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddNewImContactToGroupSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddNewImContactToGroupSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="AddNewImContactToGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:AddNewImContactToGroupSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

If the group contains more than the maximum 1000 contacts (2), this operation fails and **ErrorImContactLimitReached** (as specified in [MS-OXWSCDATA] section 2.2.5.24) will be returned. If a contact (3) already exists that has the same instant messaging address, this operation does nothing.

The protocol client sends an **AddNewImContactToGroupSoapIn** request **WSDL message** and the protocol server responds with an **AddNewImContactToGroupSoapOut** response WSDL message.

3.1.4.4.1 Messages

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

Message	Description
AddNewImContactToGroupSoapIn	Specifies the request to add a new **instant messaging contact (2)** to a group.
AddNewImContactToGroupSoapOut	Specifies the response to the **AddNewImContactToGroupSoapIn** request WSDL message.

3.1.4.4.1.1 AddNewImContactToGroupSoapIn

The **AddNewImContactToGroupSoapIn WSDL message** specifies the request to add a new **instant messaging contact (2)** to a group.

The following is the **AddNewImContactToGroupSoapIn** WSDL message specification.

```
<wsdl:message name="AddNewImContactToGroupSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:AddNewImContactToGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**AddNewImContactToGroup**	Specifies the **SOAP body** of the request to add an instant messaging contact (2) to a group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **AddNewImContactToGroup WSDL operation** request.

3.1.4.4.1.2 AddNewImContactToGroupSoapOut

The **AddNewImContactToGroupSoapOut WSDL message** specifies the response to the **AddNewImContactToGroupSoapIn** request WSDL message.

The following is the **AddNewImContactToGroupSoapOut** WSDL message specification.

```
<wsdl:message name="AddNewImContactToGroupSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="AddNewImContactToGroupResult"
element="tns:AddNewImContactToGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **AddNewImContactToGroupSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/AddNewImContactToGroup.

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

Part name	Element/type	Description
AddNewImContactToGroupResult	**AddNewImContactToGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **AddNewImContactToGroup WSDL operation** request returns an **AddNewImContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddNewImContactToGroupResponse** element is set to "NoError".

If the **AddNewImContactToGroup** WSDL operation is not successful, it returns an **AddNewImContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddNewImContactToGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.4.2 Elements

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

Element	Description
AddNewImContactToGroup	The input data for the **AddNewImContactToGroup WSDL operation**.
AddNewImContactToGroupResponse	The result data for the **AddNewImContactToGroup** WSDL operation.

3.1.4.4.2.1   AddNewImContactToGroup

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

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

3.1.4.4.2.2   AddNewImContactToGroupResponse

The **AddNewImContactToGroupResponse** element specifies the result data for the
AddNewImContactToGroup WSDL operation.

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

3.1.4.4.3 Complex Types

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

Complex type	Description
AddNewImContactToGroupResponseMessageType	Specifies the response message for an **AddNewImContactToGroup WSDL operation**.
AddNewImContactToGroupType	Specifies a request to add a new **instant messaging contact (2)** to a group.

3.1.4.4.3.1   AddNewImContactToGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddNewImContactToGroupType** complex type specifies a request to add a new **instant
messaging contact (2)** to a group. The **AddNewImContactToGroupType** complex type extends
the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="AddNewImContactToGroupType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="ImAddress" type="t:NonEmptyStringType"/>
        <xs:element minOccurs="0" name="DisplayName" type="t:NonEmptyStringType"/>
        <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImAddress: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section
2.2.5.20, that represents the instant messaging address of the contact (2).

DisplayName: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section
2.2.5.20, that represents the display name of the contact (2).

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that
represents the identifier of the group. If this element is not specified, the contact is added to the
OtherContacts group.

3.1.4.4.3.2   AddNewImContactToGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddnewImContactToGroupResponseMessageType** complex type specifies the response message for an **AddNewImContactToGroup WSDL operation**. The **AddNewImContactToGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="AddNewImContactToGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="Persona" type="t:PersonaType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Persona: An element of type **PersonaType**, as specified in [MS-OXWSPERS] section 2.2.4.19, that represents an **instant messaging contact (2)**.

3.1.4.4.4 Simple Types

None.

3.1.4.4.5 Attributes

None.

3.1.4.4.6 Groups

None.

3.1.4.4.7 Attribute Groups

None.

3.1.4.5 AddNewTelUriContactToGroup

The **AddNewTelUriContactToGroup WSDL operation** adds a new TEL URI ([RFC3966]) **contact (2)** to a group.

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

```
<wsdl:operation name="AddNewTelUriContactToGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:AddNewTelUriContactToGroupSoapIn"/>
  <wsdl:output message="tns:AddNewTelUriContactToGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **AddNewTelUriContactToGroup** WSDL operation.

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

```
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddNewTelUriContactT
oGroup" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
   <wsdl:input>
      <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
   </wsdl:input>
   <wsdl:output>
      <soap:body use="literal" parts="AddNewTelUriContactToGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:header message="tns:AddNewTelUriContactToGroupSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
   </wsdl:output>
</wsdl:operation>
```

The protocol client sends an **AddNewTelUriContactToGroupSoapIn** request **WSDL message** and the protocol server responds with an **AddNewTelUriContactToGroupSoapOut** response WSDL message.

This operation fails and **ErrorImContactLimitReached** (as specified in [MS-OXWSCDATA] section 2.2.5.24) will be returned if the maximum 1000 contacts (2) already exist and none of them has the same TEL URI address with the new added contact (2).

3.1.4.5.1 Messages

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

Message	Description
AddNewTelUriContactToGroupSoapIn	Specifies the request to add a new TEL URI **contact (2)** to a group.
AddNewTelUriContactToGroupSoapOut	Specifies the response to the **AddNewTelUriContactToGroupSoapIn** request WSDL message.

3.1.4.5.1.1 AddNewTelUriContactToGroupSoapIn

The **AddNewTelUriContactToGroupSoapIn WSDL message** specifies the request to add a new TEL URI contact (3) to a group.

The following is the **AddNewTelUriContactToGroupSoapIn** WSDL message specification.

```
<wsdl:message name="AddNewTelUriContactToGroupSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:AddNewTelUriContactToGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**AddNewTelUriContactToGroup**	Specifies the **SOAP body** of the request to add a new TEL URI **contact (2)**.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **AddNewTelUriContactToGroup** WSDL operation request.

3.1.4.5.1.2   AddNewTelUriContactToGroupSoapOut

The **AddNewTelUriContactToGroupSoapOut** **WSDL message** specifies the response to the **AddNewTelUriContactToGroupSoapIn** request WSDL message.

The following is the **AddNewTelUriContactToGroupSoapOut** WSDL message specification.

```
<wsdl:message name="AddNewTelUriContactToGroupSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="AddNewTelUriContactToGroupResult"
element="tns:AddNewTelUriContactToGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **AddNewTelUriContactToGroupSoapOut** WSDL message is the output message for the **SOAP action**
http://schemas.microsoft.com/exchange/services/2006/messages/AddNewTelUriContactToGroup.

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

Part name	Element/type	Description
AddNewTelUriContactToGroupResult	**AddNewTelUriContactToGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **AddNewTelUriContactToGroup WSDL operation** request returns an **AddNewTelUriContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddNewTelUriContactToGroupResponse** element is set to "NoError".

If the **AddNewTelUriContactToGroup** WSDL operation is not successful, it returns an **AddNewTelUriContactToGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **AddNewTelUriContactToGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.5.2 Elements

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

Element	Description
AddNewTelUriContactToGroup	The input data for the **AddNewTelUriContactToGroup WSDL operation**.
AddNewTelUriContactToGroupResponse	The result data for the **AddNewTelUriContactToGroup** WSDL operation.

3.1.4.5.2.1   AddNewTelUriContactToGroup

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

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

3.1.4.5.2.2   AddNewTelUriContactToGroupResponse

The **AddNewTelUriContactToGroupResponse** element specifies the result data for the **AddNewTelUriContactToGroup WSDL operation**.

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

3.1.4.5.3 Complex Types

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

Complex type	Description
AddNewTelUriContactToGroupResponseMessageType	Specifies the response message for an **AddNewTelUriContactToGroup WSDL operation**.

Complex type	Description
AddNewTelUriContactToGroupType	Specifies a request to add a new TEL URI **contact (2)** to a group.

3.1.4.5.3.1 AddNewTelUriContactToGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddNewTelUriContactToGroupType** complex type specifies a request to add a new TEL URI **contact (2)** to a group. The **AddNewTelUriContactToGroupType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="AddNewTelUriContactToGroupType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="TelUriAddress" type="t:NonEmptyStringType"/>
        <xs:element name="ImContactSipUriAddress" type="t:NonEmptyStringType"/>
        <xs:element name="ImTelephoneNumber" type="t:NonEmptyStringType"/>
        <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

TelUriAddress: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the TEL URI address of the contact (2).

ImContactSipUriAddress: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the **SIP** URI address of the contact.

ImTelephoneNumber: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the telephone number for the contact.

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the group. If this element is not specified, the contact is added to the OtherContacts group.

3.1.4.5.3.2 AddNewTelUriContactToGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **AddNewTelUriContactToGroupResponseMessageType** complex type specifies the response message for an **AddNewImTelUriContactToGroup WSDL operation**. The **AddNewTelUriContactToGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="AddNewTelUriContactToGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="Persona" type="t:PersonaType"/>
      </xs:sequence>
    </xs:extension>
```

```
          </xs:complexContent>
      </xs:complexType>
```

Persona: An element of type **PersonaType**, as defined in [MS-OXWSPERS] section 2.2.4.19, that represents the TEL URI **contact (2)**.

3.1.4.5.4 Simple Types

None.

3.1.4.5.5 Attributes

None.

3.1.4.5.6 Groups

None.

3.1.4.5.7 Attribute Groups

None.

3.1.4.6 GetImItemList

The **GetImItemList WSDL operation** retrieves all data for **instant messaging** groups and **contacts (2)** in the contact list.

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

```
<wsdl:operation name="GetImItemList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetImItemListSoapIn"/>
  <wsdl:output message="tns:GetImItemListSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **GetImItemList** WSDL operation.

```
<wsdl:operation name="GetImItemList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetImItemList"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:GetImItemListSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:GetImItemListSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:GetImItemListSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="GetImItemListResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:GetImItemListSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

This operation will not return contact (2) groups in the ImContactList folder if the user manually creates a group that is not recognized. This operation will not return contacts (2) in the QuickContacts folder that are not members of any of the groups in the ImContactList folder that are returned.

The protocol client sends a **GetImItemListSoapIn** request **WSDL message** and the protocol server responds with a **GetImItemListSoapOut** response WSDL message.

3.1.4.6.1 Messages

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

Message	Description
GetImItemListSoapIn	Specifies the request to retrieve an **instant messaging** item list.
GetImItemListSoapOut	Specifies the response to the **GetImItemListSoapIn** request WSDL message.

3.1.4.6.1.1   GetImItemListSoapIn

The **GetImItemListSoapIn WSDL message** specifies the request to retrieve an **instant messaging** item list.

The following is the **GetImItemListSoapIn** WSDL message specification.

```
<wsdl:message name="GetImItemListSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:GetImItemList"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**GetImItemList**	Specifies the **SOAP body** of the request to retrieve an instant messaging item list.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **GetImItemList WSDL operation** request.

3.1.4.6.1.2 GetImItemListSoapOut

The **GetImItemListSoapOut WSDL message** specifies the response to the **GetImItemListSoapIn** request WSDL message.

The following is the **GetImItemListSoapOut** WSDL message specification.

```
<wsdl:message name="GetImItemListSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetImItemListResult" element="tns:GetImItemListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **GetImItemListSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/GetImItemList.

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

Part name	Element/type	Description
GetImItemListResult	**GetImItemListResponse**	Specifies the **SOAP body** of the response that contains the requested information.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **GetImItemList** operation request returns a **GetImItemListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **GetImItemListResponse** element is set to "NoError".

If the **GetImItemList** operation is not successful, it returns a **GetImItemListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **GetImItemListResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.6.2 Elements

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

Element	Description
GetImItemList	The input data for the **GetImItemList WSDL operation**.
GetImItemListResponse	The result data for the **GetImItemList** WSDL operation.

3.1.4.6.2.1 GetImItemList

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

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

3.1.4.6.2.2   GetImItemListResponse

The **GetImItemListResponse** element specifies the result data for the **GetImItemList WSDL operation**.

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

3.1.4.6.3 Complex Types

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

Complex type	Description
GetImItemListResponseMessageType	Specifies the response message for a **GetImItemList WSDL operation**.
GetImItemListType	Specifies a request to retrieve an **instant messaging** item list.

3.1.4.6.3.1   GetImItemListType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetImItemListType** complex type specifies a request to retrieve an **instant messaging** item list. The **GetImItemListType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="GetImItemListType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedFieldURIs"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ExtendedProperties: An element of type **NonEmptyArrayOfExtendedFieldURIs**, as defined in section 2.2.4.4, that contains an array of additional properties.

3.1.4.6.3.2   GetImItemListResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetImItemListResponseMessageType** complex type specifies the response message for a **GetImItemList WSDL operation**. The **GetImItemListResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="GetImItemListResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ImItemList" type="t:ImItemListType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImItemList: An element of type **ImItemListType**, as defined in section 2.2.4.3, that represents a list of **instant messaging contacts (2)**.

3.1.4.6.4 Simple Types

None.

3.1.4.6.5 Attributes

None.

3.1.4.6.6 Groups

None.

3.1.4.6.7 Attribute Groups

None.

3.1.4.7 GetImItems

The **GetImItems WSDL operation** retrieves groups and **contacts (2)** for the specified identifiers.

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

```
<wsdl:operation name="GetImItems" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:GetImItemsSoapIn"/>
  <wsdl:output message="tns:GetImItemsSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **GetImItems** WSDL operation.

```
<wsdl:operation name="GetImItems" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetImItems"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:GetImItemsSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:GetImItemsSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:GetImItemsSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="GetImItemsResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
```

```
        <soap:header message="tns:GetImItemsSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **GetImItemsSoapIn** request **WSDL message** and the protocol server responds with a **GetImItemsSoapOut** response WSDL message.

3.1.4.7.1 Messages

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

Message	Description
GetImItemsSoapIn	Specifies the request to retrieve **instant messaging** items.
GetImItemsSoapOut	Specifies the response to the **GetImItemsSoapIn** request WSDL message.

3.1.4.7.1.1 GetImItemsSoapIn

The **GetImItemsSoapIn WSDL message** specifies the request to retrieve **instant messaging** items.

The following is the **GetImItemsSoapIn** WSDL message specification.

```
<wsdl:message name="GetImItemsSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:GetImItems"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**GetImItems**	Specifies the **SOAP body** of the request to retrieve instant messaging items.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **GetImItems WSDL operation** request.

3.1.4.7.1.2   GetImItemsSoapOut

The **GetImItemsSoapOut WSDL message** specifies the response to the **GetImItemsSoapIn** request WSDL message.

The following is the **GetImItemsSoapOut** WSDL message specification.

```
<wsdl:message name="GetImItemsSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="GetImItemsResult" element="tns:GetImItemsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **GetImItemsSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/GetImItems.

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

Part name	Element/type	Description
GetImItemsResult	**GetImItemsResponse**	Specifies the **SOAP body** of the response that contains the requested information.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **GetImItems WSDL operation** request returns a **GetImItemsResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **GetImItemsResponse** element is set to "NoError".

If the **GetImItems** WSDL operation is not successful, it returns a **GetImItemsResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **GetImItemsResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.7.2 Elements

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

Element	Description
GetImItems	The input data for the **GetImItems WSDL operation**.
GetImItemsResponse	The result data for the **GetImItems** WSDL operation.

3.1.4.7.2.1   GetImItems

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

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

3.1.4.7.2.2   GetImItemsResponse

The **GetImItemsResponse** element specifies the result data for the **GetImItems WSDL operation**.

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

3.1.4.7.3 Complex Types

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

Complex type	Description
GetImItemsResponseMessageType	Specifies the response message for the **GetImItems WSDL operation**.
GetImItemsType	Specifies a request to retrieve **instant messaging** items.

3.1.4.7.3.1   GetImItemsType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetImItemsType** complex type specifies a request to retrieve **instant messaging** items. The **GetImItemsType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="GetImItemsType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ContactIds" type="t:NonEmptyArrayOfBaseItemIdsType"/>
        <xs:element minOccurs="0" name="GroupIds" type="t:NonEmptyArrayOfBaseItemIdsType"/>
        <xs:element minOccurs="0" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedFieldURIs"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ContactIds: An element of type **NonEmptyArrayOfBaseItemIdsType**, as defined in[MS-OXWSCORE] section 2.2.4.31, that represents the identifiers of the **contacts (2)**.

GroupIds: An element of type **NonEmptyArrayOfBaseItemIdsType**, as defined in [MS-OXWSCORE] section 2.2.4.31, that represents the identifiers of the groups.

ExtendedProperties: An element of type **NonEmptyArrayOfExtendedFieldURIs**, as defined in section 2.2.4.4, that contains an array of additional properties for the contacts (2) or the groups.

3.1.4.7.3.2   GetImItemsResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **GetImItemsResponseMessageType** complex type specifies the response message for the **GetImItems WSDL operation**. The **GetImItemsResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="GetImItemsResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType">
      <xs:sequence>
        <xs:element minOccurs="0" name="ImItemList" type="t:ImItemListType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImItemList: An element of type **ImItemListType**, as defined in section 2.2.4.3, that represents a list of **instant messaging** groups and **contacts (2)**.

3.1.4.7.4 Simple Types

None.

3.1.4.7.5 Attributes

None.

3.1.4.7.6 Groups

None.

3.1.4.7.7 Attribute Groups

None.

3.1.4.8 RemoveContactFromImList

The **RemoveContactFromImList WSDL operation** removes the specified **contact (2)** from all **instant messaging** groups.

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

```
<wsdl:operation name="RemoveContactFromImList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RemoveContactFromImListSoapIn"/>
  <wsdl:output message="tns:RemoveContactFromImListSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **RemoveContactFromImList** WSDL operation.

```
<wsdl:operation name="RemoveContactFromImList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveContactFromImL
ist" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:RemoveContactFromImListSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveContactFromImListSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
```

```
        <soap:header message="tns:RemoveContactFromImListSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
        <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="RemoveContactFromImListResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
        <soap:header message="tns:RemoveContactFromImListSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **RemoveContactFromImListSoapIn** request **WSDL message** and the protocol server responds with a **RemoveContactFromImListSoapOut** response WSDL message.

3.1.4.8.1 Messages

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

Message	Description
RemoveContactFromImListSoapIn	Specifies the request to remove a **contact (2)** from the **instant messaging** list.
RemoveContactFromImListSoapOut	Specifies the response to the **RemoveContactFromImListSoapIn** request WSDL message.

3.1.4.8.1.1 RemoveContactFromImListSoapIn

The **RemoveContactFromImListSoapIn WSDL message** specifies the request to remove a **contact** from the **instant messaging** list.

The following is the **RemoveContactFromImListSoapIn** WSDL message specification.

```
<wsdl:message name="RemoveContactFromImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="request" element="tns:RemoveContactFromImList"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**RemoveContactFromImList**	Specifies the **SOAP body** of the request to remove a contact (2).
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section	Specifies a **SOAP header** that identifies the user whom the client is impersonating.

Part name	Element/type	Description
	2.2.3.3)	
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **RemoveContactFromImList WSDL operation** request.

3.1.4.8.1.2 RemoveContactFromImListSoapOut

The **RemoveContactFromImListSoapOut WSDL message** specifies the response to the **RemoveContactFromImListSoapIn** request WSDL message.

The following is the **RemoveContactFromImListSoapOut** WSDL message specification.

```
<wsdl:message name="RemoveContactFromImListSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="RemoveContactFromImListResult"
element="tns:RemoveContactFromImListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **RemoveContactFromImListSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/RemoveContactFromImList.

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

Part name	Element/type	Description
RemoveContactFromImListResult	**RemoveContactFromImListResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **RemoveContactFromImList WSDL operation** request returns a **RemoveContactFromImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveContactFromImListResponse** element is set to "NoError".

If the **RemoveContactFromImList** operation is not successful, it returns a **RemoveContactFromImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveContactFromImListResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.8.2 Elements

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

Element	Description
RemoveContactFromImList	The input data for the **RemoveContactFromImList WSDL operation**.
RemoveContactFromImListResponse	The result data for the **RemoveContactFromImList** WSDL operation.

3.1.4.8.2.1   RemoveContactFromImList

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

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

3.1.4.8.2.2   RemoveContactFromImListResponse

The **RemoveContactFromImListResponse** element specifies the result data for the **RemoveContactFromImList WSDL operation**.

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

3.1.4.8.3 Complex Types

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

Complex type	Description
RemoveContactFromImListResponseMessageType	Specifies the response message for a **RemoveContactFromImList WSDL operation**.
RemoveContactFromImListType	Specifies a request to remove a **contact (2)** from an **instant messaging** list.

3.1.4.8.3.1   RemoveContactFromImListType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveContactFromImListType** complex type specifies a request to remove a contact (3) from an **instant messaging** list. The **RemoveContactFromImListType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="RemoveContactFromImListType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
```

```
        <xs:sequence>
          <xs:element name="ContactId" type="t:ItemIdType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

ContactId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the **contact (2)**.

3.1.4.8.3.2   RemoveContactFromImListResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveContactFromImListResponseMessageType** complex type specifies the response message for a **RemoveContactFromImList WSDL operation**. The **RemoveContactFromImListResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
  <xs:complexType name="RemoveContactFromImListResponseMessageType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:ResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
```

3.1.4.8.4 Simple Types

None.

3.1.4.8.5 Attributes

None.

3.1.4.8.6 Groups

None.

3.1.4.8.7 Attribute Groups

None.

3.1.4.9   RemoveDistributionGroupFromImList

The **RemoveDistributionGroupFromImList WSDL operation** removes a distribution group from an **instant messaging** list.

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

```
  <wsdl:operation name="RemoveDistributionGroupFromImList"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:input message="tns:RemoveDistributionGroupFromImListSoapIn"/>
    <wsdl:output message="tns:RemoveDistributionGroupFromImListSoapOut"/>
  </wsdl:operation>
```

The following is the WSDL binding specification of the **RemoveDistributionGroupFromImList** WSDL operation.

```
<wsdl:operation name="RemoveDistributionGroupFromImList"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveDistributionGr
oupFromImList" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="RemoveDistributionGroupFromImListResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveDistributionGroupFromImListSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **RemoveDistributionGroupFromImListSoapIn** request **WSDL message** and the protocol server responds with a **RemoveDistributionGroupFromImListSoapOut** response WSDL message.

3.1.4.9.1 Messages

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

Message	Description
RemoveDistributionGroupFromImListSoapIn	Specifies the request to remove a distribution group from the **instant messaging** list.
RemoveDistributionGroupFromImListSoapOut	Specifies the response to the **RemoveDistributionGroupFromImListSoapIn** request WSDL message.

3.1.4.9.1.1   RemoveDistributionGroupFromImListSoapIn

The **RemoveDistributionGroupFromImListSoapIn WSDL message** specifies the request to remove a distribution group from the **instant messaging** list.

The following is the **RemoveDistributionGroupFromImListSoapIn** WSDL message specification.

```
<wsdl:message name="RemoveDistributionGroupFromImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:RemoveDistributionGroupFromImList"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**RemoveDistributionGroupFromImList**	Specifies the **SOAP body** of the request to remove the distribution group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **RemoveDistributionGroupFromImList WSDL operation** request.

3.1.4.9.1.2   RemoveDistributionGroupFromImListSoapOut

The **RemoveDistributionGroupFromImListSoapOut WSDL message** specifies the response to the **RemoveDistributionGroupFromImListSoapIn** request WSDL message.

The following is the **RemoveDistributionGroupFromImListSoapOut** WSDL message specification.

```
<wsdl:message name="RemoveDistributionGroupFromImListSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="RemoveDistributionGroupFromImListResult"
element="tns:RemoveDistributionGroupFromImListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **RemoveDistributionGroupFromImListSoapOut** WSDL message is the output message for the **SOAP action**
http://schemas.microsoft.com/exchange/services/2006/messages/RemoveDistributionGroupFromImList.

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

Part name	Element/type	Description
RemoveDistributionGroupFromImListResult	**RemoveDistributionGroupFromImListResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header**

Part name	Element/type	Description
		that identifies the server version for the response.

A successful **RemoveDistributionGroupFromImList** **WSDL operation** request returns a **RemoveDistributionGroupFromImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveDistributionGroupFromImListResponse** element is set to "NoError".

If the **RemoveDistributionGroupFromImList** WSDL operation is not successful, it returns a **RemoveDistributionGroupFromImListResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveDistributionGroupFromImListResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.9.2 Elements

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

Element	Description
RemoveDistributionGroupFromImList	The input data for the **RemoveDistributionGroupFromImList** **WSDL operation**.
RemoveDistributionGroupFromImListResponse	The result data for the **RemoveDistributionGroupFromImList** WSDL operation.

3.1.4.9.2.1   RemoveDistributionGroupFromImList

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

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

3.1.4.9.2.2   RemoveDistributionGroupFromImListResponse

The **RemoveDistributionGroupFromImListResponse** element specifies the result data for the **RemoveDistributionGroupFromImList** **WSDL operation**.

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

3.1.4.9.3 Complex Types

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

Complex type	Description
RemoveDistributionGroupFromImListResponseMessageType	Specifies the response message for a **RemoveDistributionGroupFromImList WSDL operation**.
RemoveDistributionGroupFromImListType	Specifies a request to remove a distribution group from an **instant messaging** list.

3.1.4.9.3.1   RemoveDistributionGroupFromImListType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveDistributionGroupFromImListType** complex type specifies a request to remove a distribution group from an **instant messaging** list. The **RemoveDistributionGroupFromImListType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="RemoveDistributionGroupFromImListType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the group.

3.1.4.9.3.2   RemoveDistributionGroupFromImListResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveDistributionGroupFromImListResponseMessageType** complex type specifies the response message for a **RemoveDistributionGroupFromImList WSDL operation**. The **RemoveDistributionGroupFromImListResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="RemoveDistributionGroupFromImListResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10   RemoveImContactFromGroup

The **RemoveImContactFromGroup WSDL operation** removes an **instant messaging contact (2)** from a group if the contact (2) is only a member of the specified group, excluding the Tagged group. If the Tagged group is the specified group, and the contact (2) is a member of the Tagged group only, the contact (2) is removed.

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

```
<wsdl:operation name="RemoveImContactFromGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RemoveImContactFromGroupSoapIn"/>
  <wsdl:output message="tns:RemoveImContactFromGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **RemoveImContactFromGroup** WSDL operation.

```
<wsdl:operation name="RemoveImContactFromGroup"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImContactFromG
roup" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="RemoveImContactFromGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveImContactFromGroupSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **RemoveImContactFromGroupSoapIn** request **WSDL message** and the protocol server responds with a **RemoveImContactFromGroupSoapOut** response WSDL message.

3.1.4.10.1 Messages

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

Message	Description
RemoveImContactFromGroupSoapIn	Specifies the request to remove an instant messaging **contact (2)** from a group.
RemoveImContactFromGroupSoapOut	Specifies the response to the **RemoveImContactFromGroupSoapIn** request WSDL message.

3.1.4.10.1.1 RemoveImContactFromGroupSoapIn

The **RemoveImContactFromGroupSoapIn WSDL message** specifies the request to remove an **instant messaging contact (2)** from a group.

The following is the **RemoveImContactFromGroupSoapIn** WSDL message specification.

```
<wsdl:message name="RemoveImContactFromGroupSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:RemoveImContactFromGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**RemoveImContactFromGroup**	Specifies the **SOAP body** of the request to remove an instant messaging contact (2).
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **RemoveImContactFromGroup WSDL operation** request.

3.1.4.10.1.2 RemoveImContactFromGroupSoapOut

The **RemoveImContactFromGroupSoapOut WSDL message** specifies the response to the **RemoveImContactFromGroupSoapIn** request.

The following is the **RemoveImContactFromGroupSoapOut** WSDL message specification.

```
<wsdl:message name="RemoveImContactFromGroupSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="RemoveImContactFromGroupResult"
element="tns:RemoveImContactFromGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **RemoveImContactFromGroupSoapOut** WSDL message is the output message for the **SOAP action**
http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImContactFromGroup.

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

Part name	Element/type	Description
RemoveImContactFromGroupResult	**RemoveImContactFromGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **RemoveImContactFromGroup WSDL operation** request returns a **RemoveImContactFromGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveImContactFromGroupResponse** element is set to "NoError".

If the **RemoveImContactFromGroup** WSDL operation is not successful, it returns a **RemoveImContactFromGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveImContactFromGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.10.2   Elements

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

Element	Description
RemoveImContactFromGroup	The input data for the **RemoveImContactFromGroup WSDL operation**.
RemoveImContactFromGroupResponse	The result data for the **RemoveImContactFromGroup** WSDL operation.

3.1.4.10.2.1 RemoveImContactFromGroup

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

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

3.1.4.10.2.2 RemoveImContactFromGroupResponse

The **RemoveImContactFromGroupResponse** element specifies the result data for the
RemoveImContactFromGroup WSDL operation.

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

3.1.4.10.3   Complex Types

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

Complex type	Description
RemoveImContactFromGroupResponseMessageType	Specifies the response message for a **RemoveImContactFromGroup WSDL operation**.
RemoveImContactFromGroupType	Specifies a request to remove an **instant messaging contact (2)** from a group.

3.1.4.10.3.1 RemoveImContactFromGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveImContactFromGroupType** complex type specifies a request to remove an **instant
messaging contact (2)** from a group. The **RemoveImContactFromGroupType** complex type
extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="RemoveImContactFromGroupType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="ContactId" type="t:ItemIdType"/>
        <xs:element name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ContactId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that
represents the identifier of the contact (2).

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that
represents the identifier of the group.

3.1.4.10.3.2 RemoveImContactFromGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveImContactFromGroupResponseMessageType** complex type specifies the response message for a **RemoveImContactFromGroup WSDL operation**. The **RemoveImContactFromGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="RemoveImContactFromGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.10.4   Simple Types

None.

3.1.4.10.5   Attributes

None.

3.1.4.10.6   Groups

None.

3.1.4.10.7   Attribute Groups

None.

3.1.4.11   RemoveImGroup

The **RemoveImGroup WSDL operation** removes the **instant messaging** group and all the **contacts (2)** in the group. A contact (2) is deleted if it is a member of only the specified group, excluding the Tagged group. If the Tagged group is the specified group and the contact (2) is a member of the Tagged group only, the contact (2) is removed.

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

```
<wsdl:operation name="RemoveImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:RemoveImGroupSoapIn"/>
  <wsdl:output message="tns:RemoveImGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **RemoveImGroup** WSDL operation.

```
<wsdl:operation name="RemoveImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImGroup"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:RemoveImGroupSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:RemoveImGroupSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
```

```
      <soap:header message="tns:RemoveImGroupSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" parts="RemoveImGroupResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:header message="tns:RemoveImGroupSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **RemoveImGroupSoapIn** request **WSDL message** and the protocol server responds with a **RemoveImGroupSoapOut** response WSDL message.

3.1.4.11.1   Messages

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

Message	Description
RemoveImGroupSoapIn	Specifies the request to remove an **instant messaging** group.
RemoveImGroupSoapOut	Specifies the response to the **RemoveImGroupSoapIn** request WSDL message.

3.1.4.11.1.1 RemoveImGroupSoapIn

The **RemoveImGroupSoapIn WSDL message** specifies the request to remove an **instant messaging** group.

The following is the **RemoveImGroupSoapIn** WSDL message specification.

```
<wsdl:message name="RemoveImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:RemoveImGroup"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**RemoveImGroup**	Specifies the **SOAP body** of the request to remove an instant messaging group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture**	Specifies a SOAP header that identifies the culture to use to

Part name	Element/type	Description
	([MS-OXWSCDATA] section 2.2.3.6)	access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **RemoveImGroup WSDL operation** request.

3.1.4.11.1.2 RemoveImGroupSoapOut

The **RemoveImGroupSoapOut WSDL message** specifies the response to the **RemoveImGroupSoapIn** request WSDL message.

The following is the **RemoveImGroupSoapOut** WSDL message specification.

```
<wsdl:message name="RemoveImGroupSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="RemoveImGroupResult" element="tns:RemoveImGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **RemoveImGroupSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImGroup.

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

Part name	Element/type	Description
RemoveImGroupResult	**RemoveImGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **RemoveImGroup WSDL operation** request returns a **RemoveImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveImGroupResponse** element is set to "NoError".

If the **RemoveImGroup** WSDL operation is not successful, it returns a **RemoveImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **RemoveImGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.11.2 Elements

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

Element	Description
RemoveImGroup	The input data for the **RemoveImGroup WSDL operation**.

Element	Description
RemoveImGroupResponse	The result data for the **RemoveImGroup** WSDL operation.

3.1.4.11.2.1 RemoveImGroup

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

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

3.1.4.11.2.2 RemoveImGroupResponse

The **RemoveImGroupResponse** element specifies the result data for the **RemoveImGroup WSDL operation**.

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

3.1.4.11.3   Complex Types

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

Complex type	Description
RemoveImGroupResponseMessageType	Specifies the response message for a **RemoveImGroup WSDL operation**.
RemoveImGroupType	Specifies a request to remove an **instant messaging** group.

3.1.4.11.3.1 RemoveImGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveImGroupType** complex type specifies a request to remove an **instant messaging** group. The **RemoveImGroupType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="RemoveImGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the group.

3.1.4.11.3.2 RemoveImGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **RemoveImGroupResponseMessageType** complex type specifies the response message for a **RemoveImGroup WSDL operation**. The **RemoveImGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="RemoveImGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.11.4   Simple Types

None.

3.1.4.11.5   Attributes

None.

3.1.4.11.6   Groups

None.

3.1.4.11.7   Attribute Groups

None.

3.1.4.12   SetImGroup

The **SetImGroup WSDL operation** changes the display name of an **instant messaging** group.

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

```
<wsdl:operation name="SetImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:SetImGroupSoapIn"/>
  <wsdl:output message="tns:SetImGroupSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **SetImGroup** WSDL operation.

```
<wsdl:operation name="SetImGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetImGroup"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:SetImGroupSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:SetImGroupSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:SetImGroupSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>

    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
```

```
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" parts="SetImGroupResult"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
      <soap:header message="tns:SetImGroupSoapOut" part="ServerVersion" use="literal"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    </wsdl:output>
  </wsdl:operation>
```

The protocol client sends a **SetImGroupSoapIn** request **WSDL message** and the protocol server responds with a **SetImGroupSoapOut** response WSDL message.

3.1.4.12.1   Messages

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

Message	Description
SetImGroupSoapIn	Specifies the request to set the display name of an **instant messaging** group.
SetImGroupSoapOut	Specifies the response to the **SetImGroupSoapIn** request WSDL message.

3.1.4.12.1.1   SetImGroupSoapIn

The **SetImGroupSoapIn WSDL message** specifies the request to set the display name of an **instant messaging** group.

The following is the **SetImGroupSoapIn** WSDL message specification.

```
  <wsdl:message name="SetImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="request" element="tns:SetImGroup"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
```

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

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

Part name	Element/type	Description
request	**SetImGroup**	Specifies the **SOAP body** of the request to set the display name of an instant messaging group.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion**	Specifies a SOAP header that identifies the schema version

Part name	Element/type	Description
	([MS-OXWSCDATA] section 2.2.3.9)	for the **SetImGroup** WSDL message request.

3.1.4.12.1.2 SetImGroupSoapOut

The **SetImGroupSoapOut WSDL message** specifies the response to the **SetImGroupSoapIn** request WSDL message.

The following is the **SetImGroupSoapOut** WSDL message specification.

```
<wsdl:message name="SetImGroupSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="SetImGroupResult" element="tns:SetImGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **SetImGroupSoapOut** WSDL message is the output message for the **SOAP action** http://schemas.microsoft.com/exchange/services/2006/messages/SetImGroup.

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

Part name	Element/type	Description
SetImGroupResult	**SetImGroupResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **SetImGroup WSDL operation** request returns a **SetImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **SetImGroupResponse** element is set to "NoError".

If the **SetImGroup** WSDL operation is not successful, it returns a **SetImGroupResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **SetImGroupResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.12.2 Elements

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

Element	Description
SetImGroup	The input data for the **SetImGroup WSDL operation**.
SetImGroupResponse	The result data for the **SetImGroup** WSDL operation.

3.1.4.12.2.1 SetImGroup

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

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

3.1.4.12.2.2 SetImGroupResponse

The **SetImGroupResponse** element specifies the result data for the **SetImGroup WSDL operation**.

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

3.1.4.12.3   Complex Types

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

Complex type	Description
SetImGroupResponseMessageType	Specifies the response message for a **SetImGroup WSDL operation**.
SetImGroupType	Specifies a request to set the display name of an **instant messaging** group.

3.1.4.12.3.1 SetImGroupType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **SetImGroupType** complex type specifies a request to set the display name of an **instant messaging** group The **SetImGroupType** complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="SetImGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="GroupId" type="t:ItemIdType"/>
        <xs:element name="NewDisplayName" type="t:NonEmptyStringType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

GroupId: An element of type **ItemIdType**, as defined in [MS-OXWSCORE] section 2.2.4.25, that represents the identifier of the group.

NewDisplayName: An element of type **NonEmptyStringType**, as defined in [MS-OXWSCDATA] section 2.2.5.20, that represents the new display name of the instant messaging group.

3.1.4.12.3.2 SetImGroupResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **SetImGroupResponseMessageType** complex type specifies the response message for a **SetImGroup WSDL operation**. The **SetImGroupResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="SetImGroupResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.12.4   Simple Types

None.

3.1.4.12.5   Attributes

None.

3.1.4.12.6   Groups

None.

3.1.4.12.7   Attribute Groups

None.

3.1.4.13   SetImListMigrationCompleted

The **SetImListMigrationCompleted WSDL operation** indicates whether the **instant messaging contacts (2)** in a **mailbox** have been migrated to the server.

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

```
<wsdl:operation name="SetImListMigrationCompleted"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="tns:SetImListMigrationCompletedSoapIn"/>
  <wsdl:output message="tns:SetImListMigrationCompletedSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of the **SetImListMigrationCompleted** WSDL operation.

```
<wsdl:operation name="SetImListMigrationCompleted"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetImListMigrationCo
mpleted" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>

    <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
```

```
      </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="SetImListMigrationCompletedResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="tns:SetImListMigrationCompletedSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

When the user's mailbox has been migrated to Unified Contact Store (UCS) mode, the
ImListMigrationCompleted property (as defined in section 3.1.4.13.3.1) is set on the user's **Active
Directory object**.

The protocol client sends a **SetImListMigrationCompletedSoapIn** request **WSDL message** and the
protocol server responds with a **SetImListMigrationCompletedSoapOut** response WSDL message.

3.1.4.13.1   Messages

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

Message	Description
SetImListMigrationCompletedSoapIn	Specifies the request to indicate whether the migration of the **instant messaging contacts (2)** to the server is complete.
SetImListMigrationCompletedSoapOut	Specifies the response to the **SetImListMigrationCompletedSoapIn** request WSDL message.

3.1.4.13.1.1   SetImListMigrationCompletedSoapIn

The **SetImListMigrationCompletedSoapIn WSDL message** specifies the request to indicate
whether the migration of the **instant messaging contacts (2)** to the server is complete.

The following is the **SetImListMigrationCompletedSoapIn** WSDL message specification.

```
<wsdl:message name="SetImListMigrationCompletedSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="tns:SetImListMigrationCompleted"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**SetImListMigrationCompleted**	Specifies the **SOAP body** of the request to indicate if the migration is complete.

Part name	Element/type	Description
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.3.6)	Specifies a SOAP header that identifies the culture to use to access the **mailbox**. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **SetImListMigrationCompleted WSDL operation** request.

3.1.4.13.1.2 SetImListMigrationCompletedSoapOut

The **SetImListMigrationCompletedSoapOut WSDL message** specifies the response to the **SetImListMigrationCompletedSoapIn** request WSDL message.

The following is the **SetImListMigrationCompletedSoapOut** WSDL message specification.

```
<wsdl:message name="SetImListMigrationCompletedSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="SetImListMigrationCompletedResult"
element="tns:SetImListMigrationCompletedResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **SetImListMigrationCompletedSoapOut** WSDL message is the output message for the **SOAP action**
http://schemas.microsoft.com/exchange/services/2006/messages/SetImListMigrationCompleted.

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

Part name	Element/type	Description
SetImListMigrationCompletedResult	**SetImListMigrationCompletedResponse**	Specifies the **SOAP body** of the response.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a **SOAP header** that identifies the server version for the response.

A successful **SetImListMigrationCompleted WSDL operation** request returns a **SetImListMigrationCompletedResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.65) element of the **SetImListMigrationCompletedResponse** element is set to "NoError".

If the **SetImListMigrationCompleted** WSDL operation is not successful, it returns a **SetImListMigrationCompletedResponse** element with the **ResponseClass** (as specified in [MS-OXWSCDATA] section 2.2.4.65) attribute set to "Error". The **ResponseCode** (as specified in [MS-

OXWSCDATA] section 2.2.4.65) element of the **SetImListMigrationCompletedResponse** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.24.

3.1.4.13.2   Elements

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

Element	Description
SetImListMigrationCompleted	The input data for the **SetImListMigrationCompleted WSDL operation**.
SetImListMigrationCompletedResponse	The result data for the **SetImListMigrationCompleted** WSDL operation.

3.1.4.13.2.1   SetImListMigrationCompleted

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

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

3.1.4.13.2.2   SetImListMigrationCompletedResponse

The **SetImListMigrationCompletedResponse** element specifies the result data for the **SetImListMigrationCompleted WSDL operation**.

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

3.1.4.13.3   Complex Types

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

Complex type	Description
SetImListMigrationCompletedResponseMessageType	Specifies the response message for the **SetImListMigrationCompleted WSDL operation**.
SetImListMigrationCompletedType	Specifies whether the migration of a **contact (2)** list from the server to an **instant messaging** system is complete.

3.1.4.13.3.1   SetImListMigrationCompletedType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **SetImListMigrationCompletedtype** complex type specifies whether the migration of a contact (3) list from the server to an **instant messaging** system is complete. The

SetImListMigrationCompletedType complex type extends the **BaseRequestType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.17.

```
<xs:complexType name="SetImListMigrationCompletedType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:BaseRequestType">
      <xs:sequence>
        <xs:element name="ImListMigrationCompleted" type="xs:boolean"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ImListMigrationCompleted: An element of type **xs:boolean**, as defined in [XMLSCHEMA2], that indicates whether the migration is complete.

3.1.4.13.3.2 SetImListMigrationCompletedResponseMessageType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **SetImListMigrationCompletedResponseMessageType** complex type specifies the response message for the **SetImListMigrationCompleted WSDL operation**. The **SetImListMigrationCompletedResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.65.

```
<xs:complexType name="SetImListMigrationCompletedResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.13.4   Simple Types

None.

3.1.4.13.5   Attributes

None.

3.1.4.13.6   Groups

None.

3.1.4.13.7   Attribute Groups

None.

3.1.5   Timer Events

None.

3.1.6   Other Local Events

None.

4   Protocol Examples

The following example of an **AddImGroup WSDL operation** request shows how to create an **instant messaging** group named MyCustomerGroup.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
               xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
    <soap:Header>
       <t:RequestServerVersion Version="Exchange2013" />
       <t:MailboxCulture>en-US</t:MailboxCulture>
    </soap:Header>
    <soap:Body >
       <m:AddImGroup>
           <m:DisplayName>MyCustomGroup</m:DisplayName>
       </m:AddImGroup>
    </soap:Body>
</soap:Envelope>
```

The following example shows a successful response to an **AddImGroup** WSDL operation request. The store identifier has been shortened to preserve readability.

```xml
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
    <s:Header>
       <h:ServerVersionInfo MajorVersion="15"
                            MinorVersion="0"
                            MajorBuildNumber="349"
                            MinorBuildNumber="0"
                            Version="Exchange2013"

xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
                            xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
                            xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
    </s:Header>
    <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema">
       <AddImGroupResponse ResponseClass="Success"

xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
          <ResponseCode>NoError</ResponseCode>
          <ImGroup>
             <DisplayName
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">MyCustomGroup</DisplayName>
             <GroupType
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">IPM.DistList.MOC.UserGroup<
/GroupType>
             <ExchangeStoreId Id="AAMkAGQ1MjJjMTBkLTc4Y2UtNDA5Ny04ZjU5LWI3MAAA="
                             ChangeKey="EgAAAA=="

xmlns="http://schemas.microsoft.com/exchange/services/2006/types"/>
          </ImGroup>
       </AddImGroupResponse>
    </s:Body>
</s:Envelope>
```

The following example shows how to add a **contact (2)** to an instant messaging group. The group and contact identifiers have been shortened to preserve readability.

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

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"

                xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"

                xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
   <soap:Header>
      <t:RequestServerVersion Version="Exchange2013" />
      <t:MailboxCulture>en-US</t:MailboxCulture>
   </soap:Header>
   <soap:Body >
      <m:AddImContactToGroup>
         <m:ContactId Id="AAMkAGQ1MjJjMTBkLTc4Y2AA="
                    ChangeKey="EQAAABYAAABtF8oI7i"/>
         <m:GroupId Id="AAMkAGQ1MjJjMTBkzzAAAQKAAA="
                    ChangeKey="EgAAAA=="/>
      </m:AddImContactToGroup>
   </soap:Body>
</soap:Envelope>
```

The following example shows a successful response to an **AddImContactToGroup** WSDL operation request.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Header>
      <h:ServerVersionInfo MajorVersion="15"
                            MinorVersion="0"
                            MajorBuildNumber="349"
                            MinorBuildNumber="0"
                            Version="Exchange2013"

xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
                            xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
                            xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
   </s:Header>
   <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
           xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <AddImContactToGroupResponse ResponseClass="Success"

xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
         <ResponseCode>NoError</ResponseCode>
      </AddImContactToGroupResponse>
   </s:Body>
</s:Envelope>
```

The following example of a **RemoveImGroup** WSDL operation request shows how to remove an instant messaging group. The group identifier has been shortened to preserve readability,

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
                xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
                xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
   <soap:Header>
      <t:RequestServerVersion Version="Exchange2013" />
      <t:MailboxCulture>en-US</t:MailboxCulture>
   </soap:Header>
   <soap:Body >
      <m:RemoveImGroup>
         <m:GroupId Id="AAMkAGQ1MjJjMTBkLTc4Y2UtNDA5hQoTbWAAAAAAQRAAA="
                    ChangeKey="EgAAAA=="/>
      </m:RemoveImGroup>
   </soap:Body>
</soap:Envelope>
```

The following example shows a successful response to a **RemoveImGroup** WSDL operation request.

```xml
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
   <s:Header>
      <h:ServerVersionInfo MajorVersion="15"
                           MinorVersion="0"
                           MajorBuildNumber="349"
                           MinorBuildNumber="0"
                           Version="Exchange2013"

xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
                           xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
                           xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
   </s:Header>
   <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
           xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <RemoveImGroupResponse ResponseClass="Success"

xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
         <ResponseCode>NoError</ResponseCode>
      </RemoveImGroupResponse>
   </s:Body>
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

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

```xml
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2015" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:include schemaLocation="MS-OXWSCOS-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="AddDistributionGroupToImList">
      <wsdl:input message="tns:AddDistributionGroupToImListSoapIn"/>
      <wsdl:output message="tns:AddDistributionGroupToImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddImContactToGroup">
      <wsdl:input message="tns:AddImContactToGroupSoapIn"/>
      <wsdl:output message="tns:AddImContactToGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddImGroup">
      <wsdl:input message="tns:AddImGroupSoapIn"/>
      <wsdl:output message="tns:AddImGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddNewImContactToGroup">
      <wsdl:input message="tns:AddNewImContactToGroupSoapIn"/>
      <wsdl:output message="tns:AddNewImContactToGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddNewTelUriContactToGroup">
      <wsdl:input message="tns:AddNewTelUriContactToGroupSoapIn"/>
      <wsdl:output message="tns:AddNewTelUriContactToGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetImItemList">
      <wsdl:input message="tns:GetImItemListSoapIn"/>
      <wsdl:output message="tns:GetImItemListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetImItems">
      <wsdl:input message="tns:GetImItemsSoapIn"/>
      <wsdl:output message="tns:GetImItemsSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveContactFromImList">
      <wsdl:input message="tns:RemoveContactFromImListSoapIn"/>
      <wsdl:output message="tns:RemoveContactFromImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveDistributionGroupFromImList">
      <wsdl:input message="tns:RemoveDistributionGroupFromImListSoapIn"/>
      <wsdl:output message="tns:RemoveDistributionGroupFromImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveImContactFromGroup">
      <wsdl:input message="tns:RemoveImContactFromGroupSoapIn"/>
      <wsdl:output message="tns:RemoveImContactFromGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveImGroup">
      <wsdl:input message="tns:RemoveImGroupSoapIn"/>
      <wsdl:output message="tns:RemoveImGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="SetImGroup">
      <wsdl:input message="tns:SetImGroupSoapIn"/>
      <wsdl:output message="tns:SetImGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="SetImListMigrationCompleted">
```

```
          <wsdl:input message="tns:SetImListMigrationCompletedSoapIn"/>

          <wsdl:output message="tns:SetImListMigrationCompletedSoapOut"/>

    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
    <wsdl:documentation>
      <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-
i.org/schemas/conformanceClaim/"/>
    </wsdl:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="AddDistributionGroupToImList">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddDistributionGroup
ToImList"/>
      <wsdl:input>
        <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:AddDistributionGroupToImListSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="AddDistributionGroupToImListResult"/>
        <soap:header message="tns:AddDistributionGroupToImListSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddImContactToGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddImContactToGroup"
/>
      <wsdl:input>
        <soap:header message="tns:AddImContactToGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:AddImContactToGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:AddImContactToGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="AddImContactToGroupResult"/>
        <soap:header message="tns:AddImContactToGroupSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddImGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddImGroup"/>
      <wsdl:input>
        <soap:header message="tns:AddImGroupSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:AddImGroupSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:AddImGroupSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="AddImGroupResult"/>
        <soap:header message="tns:AddImGroupSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddNewImContactToGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddNewImContactToGro
up"/>
      <wsdl:input>
```

```
        <soap:header message="tns:AddNewImContactToGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:AddNewImContactToGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:AddNewImContactToGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="AddNewImContactToGroupResult"/>
        <soap:header message="tns:AddNewImContactToGroupSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="AddNewTelUriContactToGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddNewTelUriContactT
oGroup"/>
      <wsdl:input>
        <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:AddNewTelUriContactToGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="AddNewTelUriContactToGroupResult"/>
        <soap:header message="tns:AddNewTelUriContactToGroupSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetImItemList">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetImItemList"/>
      <wsdl:input>
        <soap:header message="tns:GetImItemListSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:GetImItemListSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:GetImItemListSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetImItemListResult"/>
        <soap:header message="tns:GetImItemListSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="GetImItems">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetImItems"/>
      <wsdl:input>
        <soap:header message="tns:GetImItemsSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:GetImItemsSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:GetImItemsSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="GetImItemsResult"/>
        <soap:header message="tns:GetImItemsSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveContactFromImList">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveContactFromImL
ist"/>
      <wsdl:input>
```

```
        <soap:header message="tns:RemoveContactFromImListSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:RemoveContactFromImListSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:RemoveContactFromImListSoapIn" part="RequestVersion"
use="literal"/>

        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="RemoveContactFromImListResult"/>
        <soap:header message="tns:RemoveContactFromImListSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveDistributionGroupFromImList">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveDistributionGr
oupFromImList"/>
      <wsdl:input>
        <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn"
part="Impersonation" use="literal"/>
        <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn"
part="MailboxCulture" use="literal"/>
        <soap:header message="tns:RemoveDistributionGroupFromImListSoapIn"
part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="RemoveDistributionGroupFromImListResult"/>
        <soap:header message="tns:RemoveDistributionGroupFromImListSoapOut"
part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveImContactFromGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImContactFromG
roup"/>
      <wsdl:input>
        <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:RemoveImContactFromGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="RemoveImContactFromGroupResult"/>
        <soap:header message="tns:RemoveImContactFromGroupSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="RemoveImGroup">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImGroup"/>
      <wsdl:input>
        <soap:header message="tns:RemoveImGroupSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:RemoveImGroupSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:RemoveImGroupSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="RemoveImGroupResult"/>
        <soap:header message="tns:RemoveImGroupSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetImGroup">
```

```
            <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetImGroup"/>
      <wsdl:input>
        <soap:header message="tns:SetImGroupSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:SetImGroupSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:SetImGroupSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>

      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="SetImGroupResult"/>
        <soap:header message="tns:SetImGroupSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="SetImListMigrationCompleted">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetImListMigrationCo
mpleted"/>
      <wsdl:input>
        <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:SetImListMigrationCompletedSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="SetImListMigrationCompletedResult"/>
        <soap:header message="tns:SetImListMigrationCompletedSoapOut" part="ServerVersion"
use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:message name="AddDistributionGroupToImListSoapIn">
    <wsdl:part name="request" element="tns:AddDistributionGroupToImList"/>
    <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="AddDistributionGroupToImListSoapOut">
    <wsdl:part name="AddDistributionGroupToImListResult"
element="tns:AddDistributionGroupToImListResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddImContactToGroupSoapIn">
    <wsdl:part name="request" element="tns:AddImContactToGroup"/>
    <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="AddImContactToGroupSoapOut">
    <wsdl:part name="AddImContactToGroupResult" element="tns:AddImContactToGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddImGroupSoapIn">
    <wsdl:part name="request" element="tns:AddImGroup"/>
    <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="AddImGroupSoapOut">
    <wsdl:part name="AddImGroupResult" element="tns:AddImGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddNewImContactToGroupSoapIn">
    <wsdl:part name="request" element="tns:AddNewImContactToGroup"/>
    <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="AddNewImContactToGroupSoapOut">
    <wsdl:part name="AddNewImContactToGroupResult"
 element="tns:AddNewImContactToGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddNewTelUriContactToGroupSoapIn">

    <wsdl:part name="request" element="tns:AddNewTelUriContactToGroup"/>
    <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="AddNewTelUriContactToGroupSoapOut">
    <wsdl:part name="AddNewTelUriContactToGroupResult"
 element="tns:AddNewTelUriContactToGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetImItemListSoapIn">
    <wsdl:part name="request" element="tns:GetImItemList"/>
    <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="GetImItemListSoapOut">
    <wsdl:part name="GetImItemListResult" element="tns:GetImItemListResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetImItemsSoapIn">
    <wsdl:part name="request" element="tns:GetImItems"/>
    <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="GetImItemsSoapOut">
    <wsdl:part name="GetImItemsResult" element="tns:GetImItemsResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="RemoveContactFromImListSoapIn">
    <wsdl:part name="request" element="tns:RemoveContactFromImList"/>
    <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="RemoveContactFromImListSoapOut">
    <wsdl:part name="RemoveContactFromImListResult"
 element="tns:RemoveContactFromImListResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="RemoveDistributionGroupFromImListSoapIn">
    <wsdl:part name="request" element="tns:RemoveDistributionGroupFromImList"/>
    <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="RemoveDistributionGroupFromImListSoapOut">
    <wsdl:part name="RemoveDistributionGroupFromImListResult"
 element="tns:RemoveDistributionGroupFromImListResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="RemoveImContactFromGroupSoapIn">
    <wsdl:part name="request" element="tns:RemoveImContactFromGroup"/>
    <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="RemoveImContactFromGroupSoapOut">
```

```
      <wsdl:part name="RemoveImContactFromGroupResult"
element="tns:RemoveImContactFromGroupResponse"/>
      <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="RemoveImGroupSoapIn">
    <wsdl:part name="request" element="tns:RemoveImGroup"/>
    <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="RemoveImGroupSoapOut">
    <wsdl:part name="RemoveImGroupResult" element="tns:RemoveImGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SetImGroupSoapIn">
    <wsdl:part name="request" element="tns:SetImGroup"/>
    <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="SetImGroupSoapOut">
    <wsdl:part name="SetImGroupResult" element="tns:SetImGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SetImListMigrationCompletedSoapIn">
    <wsdl:part name="request" element="tns:SetImListMigrationCompleted"/>
    <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="SetImListMigrationCompletedSoapOut">
    <wsdl:part name="SetImListMigrationCompletedResult"
element="tns:SetImListMigrationCompletedResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
</wsdl:definitions>
```

7 Appendix B: Full XML Schema

Schema name	Prefix	Section
http://schemas.microsoft.com/exchange/services/2006/types	t	7.2
http://schemas.microsoft.com/exchange/services/2006/messages	tns	7.1

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

7.1 http://schemas.microsoft.com/exchange/services/2006/messages Schema

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

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

File name	Defining specification/section
MS-OXWSCDATA-messages.xsd	[MS-OXWSCDATA] section 7.1
MS-OXWSCOS-types.xsd	7.2

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2015" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:import schemaLocation="MS-OXWSCOS-types.xsd"
namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
  <xs:complexType name="AddDistributionGroupToImListType">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:BaseRequestType">
        <xs:sequence>
          <xs:element name="SmtpAddress" type="t:NonEmptyStringType"/>
          <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="AddDistributionGroupToImListResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="tns:ResponseMessageType">
        <xs:sequence>
          <xs:element minOccurs="0" name="ImGroup" type="t:ImGroupType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AddDistributionGroupToImListResponse"
type="tns:AddDistributionGroupToImListResponseMessageType"/>
  <xs:element name="AddDistributionGroupToImList"
type="tns:AddDistributionGroupToImListType"/>
  <xs:complexType name="AddImContactToGroupType">
    <xs:complexContent mixed="false">
```

```
            <xs:extension base="tns:BaseRequestType">

              <xs:sequence>

                <xs:element name="ContactId" type="t:ItemIdType"/>
                <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
        <xs:complexType name="AddImContactToGroupResponseMessageType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:ResponseMessageType"/>
          </xs:complexContent>
        </xs:complexType>
        <xs:element name="AddImContactToGroupResponse"
    type="tns:AddImContactToGroupResponseMessageType"/>
        <xs:element name="AddImContactToGroup" type="tns:AddImContactToGroupType"/>
        <xs:element name="AddImGroup" type="tns:AddImGroupType"/>
        <xs:complexType name="AddImGroupResponseMessageType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:ResponseMessageType">
              <xs:sequence>
                <xs:element minOccurs="0" name="ImGroup" type="t:ImGroupType"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
        <xs:complexType name="AddImGroupType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:BaseRequestType">
              <xs:sequence>
                <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
        <xs:element name="AddImGroupResponse" type="tns:AddImGroupResponseMessageType"/>
        <xs:element name="AddNewImContactToGroup" type="tns:AddNewImContactToGroupType"/>
        <xs:element name="AddNewImContactToGroupResponse"
    type="tns:AddNewImContactToGroupResponseMessageType"/>
        <xs:complexType name="AddNewImContactToGroupResponseMessageType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:ResponseMessageType">
              <xs:sequence>
                <xs:element minOccurs="0" name="Persona" type="t:PersonaType"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
        <xs:complexType name="AddNewImContactToGroupType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:BaseRequestType">
              <xs:sequence>
                <xs:element name="ImAddress" type="t:NonEmptyStringType"/>
                <xs:element minOccurs="0" name="DisplayName" type="t:NonEmptyStringType"/>
                <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
              </xs:sequence>
            </xs:extension>
          </xs:complexContent>
        </xs:complexType>
        <xs:complexType name="AddNewTelUriContactToGroupType">
          <xs:complexContent mixed="false">
            <xs:extension base="tns:BaseRequestType">
              <xs:sequence>
                <xs:element name="TelUriAddress" type="t:NonEmptyStringType"/>
                <xs:element name="ImContactSipUriAddress" type="t:NonEmptyStringType"/>
                <xs:element name="ImTelephoneNumber" type="t:NonEmptyStringType"/>
                <xs:element minOccurs="0" name="GroupId" type="t:ItemIdType"/>
```

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

    <xs:element name="AddNewTelUriContactToGroup" type="tns:AddNewTelUriContactToGroupType"/>
    <xs:complexType name="AddNewTelUriContactToGroupResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType">
          <xs:sequence>
            <xs:element minOccurs="0" name="Persona" type="t:PersonaType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="AddNewTelUriContactToGroupResponse"
  type="tns:AddNewTelUriContactToGroupResponseMessageType"/>
    <xs:complexType name="GetImItemListType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element minOccurs="0" name="ExtendedProperties"
  type="t:NonEmptyArrayOfExtendedFieldURIs"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="GetImItemList" type="tns:GetImItemListType"/>
    <xs:complexType name="GetImItemListResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType">
          <xs:sequence>
            <xs:element minOccurs="0" name="ImItemList" type="t:ImItemListType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="GetImItemListResponse" type="tns:GetImItemListResponseMessageType"/>
    <xs:complexType name="GetImItemsType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element minOccurs="0" name="ContactIds"
  type="t:NonEmptyArrayOfBaseItemIdsType"/>
            <xs:element minOccurs="0" name="GroupIds" type="t:NonEmptyArrayOfBaseItemIdsType"/>
            <xs:element minOccurs="0" name="ExtendedProperties"
  type="t:NonEmptyArrayOfExtendedFieldURIs"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="GetImItems" type="tns:GetImItemsType"/>
    <xs:complexType name="GetImItemsResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType">
          <xs:sequence>
            <xs:element minOccurs="0" name="ImItemList" type="t:ImItemListType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="GetImItemsResponse" type="tns:GetImItemsResponseMessageType"/>
    <xs:complexType name="RemoveContactFromImListType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="ContactId" type="t:ItemIdType"/>
          </xs:sequence>
        </xs:extension>
```

```
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveContactFromImList" type="tns:RemoveContactFromImListType"/>
    <xs:complexType name="RemoveContactFromImListResponseMessageType">
      <xs:complexContent mixed="false">

        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveContactFromImListResponse"
type="tns:RemoveContactFromImListResponseMessageType"/>
    <xs:complexType name="RemoveDistributionGroupFromImListType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="GroupId" type="t:ItemIdType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveDistributionGroupFromImList"
type="tns:RemoveDistributionGroupFromImListType"/>
    <xs:complexType name="RemoveDistributionGroupFromImListResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveDistributionGroupFromImListResponse"
type="tns:RemoveDistributionGroupFromImListResponseMessageType"/>
    <xs:complexType name="RemoveImContactFromGroupType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="ContactId" type="t:ItemIdType"/>
            <xs:element name="GroupId" type="t:ItemIdType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveImContactFromGroupResponse"
type="tns:RemoveImContactFromGroupResponseMessageType"/>
    <xs:complexType name="RemoveImContactFromGroupResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveImContactFromGroup" type="tns:RemoveImContactFromGroupType"/>
    <xs:complexType name="RemoveImGroupType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="GroupId" type="t:ItemIdType"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveImGroup" type="tns:RemoveImGroupType"/>
    <xs:complexType name="RemoveImGroupResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="RemoveImGroupResponse" type="tns:RemoveImGroupResponseMessageType"/>
    <xs:complexType name="SetImGroupType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="GroupId" type="t:ItemIdType"/>
            <xs:element name="NewDisplayName" type="t:NonEmptyStringType"/>
```

```
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SetImGroup" type="tns:SetImGroupType"/>
    <xs:complexType name="SetImGroupResponseMessageType">

      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SetImGroupResponse" type="tns:SetImGroupResponseMessageType"/>
    <xs:complexType name="SetImListMigrationCompletedType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:BaseRequestType">
          <xs:sequence>
            <xs:element name="ImListMigrationCompleted" type="xs:boolean"/>
          </xs:sequence>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SetImListMigrationCompleted" type="tns:SetImListMigrationCompletedType"/>
    <xs:complexType name="SetImListMigrationCompletedResponseMessageType">
      <xs:complexContent mixed="false">
        <xs:extension base="tns:ResponseMessageType"/>
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="SetImListMigrationCompletedResponse"
  type="tns:SetImListMigrationCompletedResponseMessageType"/>
  </xs:schema>
```

7.2   http://schemas.microsoft.com/exchange/services/2006/types Schema

This section contains the MS-OXWSCOS-types.xsd and information about additional files that this schema file requires to operate correctly.

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

File name	Defining specification/section
MS-OXWSCDATA-types.xsd	[MS-OXWSCDATA] section 7.2
MS-OXWSBTRF-types.xsd	[MS-OXWSBTRF] section 7.2

```
    <?xml version="1.0" encoding="UTF-8"?>
    <xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
    elementFormDefault="qualified"
    targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
    version="Exchange2015" id="types" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
      <xs:include schemaLocation="MS-OXWSCDATA-types.xsd"/>
      <xs:include schemaLocation="MS-OXWSBTRF-types.xsd"/>
      <xs:complexType name="ArrayOfImGroupType">
        <xs:choice minOccurs="0" maxOccurs="unbounded">
          <xs:element name="ImGroup" type="t:ImGroupType"/>
        </xs:choice>
      </xs:complexType>
      <xs:complexType name="ImGroupType">
        <xs:sequence>
          <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
```

```
              <xs:element name="GroupType" type="t:NonEmptyStringType"/>
              <xs:element minOccurs="0" name="ExchangeStoreId" type="t:ItemIdType"/>
              <xs:element minOccurs="0" name="MemberCorrelationKey"
      type="t:NonEmptyArrayOfItemIdsType"/>
              <xs:element minOccurs="0" name="ExtendedProperties"
      type="t:NonEmptyArrayOfExtendedPropertyType"/>
              <xs:element minOccurs="0" name="SmtpAddress" type="xs:string"/>

          </xs:sequence>
        </xs:complexType>
        <xs:complexType name="ImItemListType">
          <xs:sequence>
            <xs:element minOccurs="0" name="Groups" type="t:ArrayOfImGroupType"/>
            <xs:element minOccurs="0" name="Personas" type="t:ArrayOfPeopleType"/>
          </xs:sequence>
        </xs:complexType>
        <xs:complexType name="NonEmptyArrayOfExtendedFieldURIs">
          <xs:choice maxOccurs="unbounded">
            <xs:element name="ExtendedProperty" type="t:PathToExtendedFieldType"/>
          </xs:choice>
        </xs:complexType>
      </xs:schema>
```

8   Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

- Microsoft Exchange Server 2013

- Microsoft Exchange Server 2016

- Microsoft Lync Client 2013/Skype for Business

- Microsoft Skype for Business 2016

- Microsoft Skype for Business 2019

- Microsoft Exchange Server 2019

- Microsoft Skype for Business 2021

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

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

9 Change Tracking

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

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

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

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

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

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

Section	Description	Revision class
3.1.4.6.1 Messages	Changed GetItemListSoapIn to GetImItemListSoapIn.	Minor
3.1.4.6.1.2 GetImItemListSoapOut	Changed GetItemListSoapIn to GetImItemListSoapIn.	Minor
3.1.4.7 GetImItems	Changed GetImItemListsSoapOut to GetImItemsSoapOut.	Minor
3.1.4.8.1.1 RemoveContactFromImListSoapIn	Changed RemoveContactFromlmList to RemoveContactFromImList.	Minor
3.1.4.11.1 Messages	Changed RemovImGroupSoapIn to RemoveImGroupSoapIn.	Minor

10 Index