

[MS-OXWSCOS]:

Unified Contact Store Web Service Protocol

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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, <http://www.rfc-editor.org/rfc/rfc2119.txt>

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

[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, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

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

[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, <http://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, <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>

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

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

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

1.2.2 Informative References

[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 [\[MS-OXDCLI\]](#), 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.

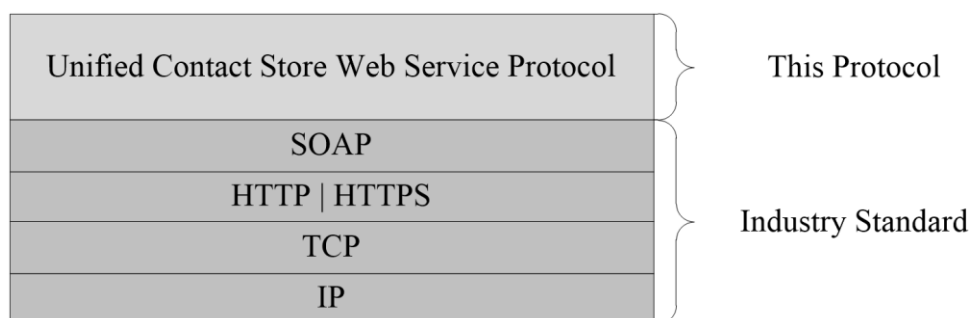


Figure 1: This protocol in relation to other protocols

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="SmtAddress" 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.

SmtptAddress: 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/AddDistributionGroupToImList"
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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 [2.2.4.15](#).

```
<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 2.2.4.67.

```

<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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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
AddImContactToGroupResponseType	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 AddImContactToGroupResponseType

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

The **AddImContactToGroupResponseType** complex type specifies the response message for the **AddImContactToGroup** operation. The **AddImContactToGroupResponseType** complex type extends the **ResponseType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67.

```
<xs:complexType name="AddImContactToGroupResponseType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseType"/>
  </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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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
AddImGroupResponseType	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 AddImGroupResponseType

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

The **AddImGroupResponseType** complex type specifies the response message for the **AddImGoup WSDL operation**. The **AddImGroupResponseType** complex type extends the **ResponseType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67.

```
<xs:complexType name="AddImGroupResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseType">
      <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/AddNewImContactToGroup"
    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 [2.2.5.23](#)) 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 2.2.4.57) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 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 AddNewImContactToGroupResponseType

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

The **AddNewImContactToGroupResponseType** complex type specifies the response message for an **AddNewImContactToGroup** **WSDL operation**. The **AddNewImContactToGroupResponseType** complex type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67.

```
<xs:complexType name="AddNewImContactToGroupResponseType"
  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/AddNewTelUriContactToGroup" 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>
    </soap: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 [2.2.5.23](#)) 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 2.2.4.57) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 [\[MS-OXWSCDATA\]](#) 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 2.2.4.67.

```
<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>
```

```
</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 **GetItemListSoapIn** 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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67.

```

<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 **GetImItemListsSoapOut** 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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67.

```
<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/RemoveContactFromImList"
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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67.

```

<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/RemoveDistributionGroupFromImList" 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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 **ResponseType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67.

```
<xs:complexType name="RemoveDistributionGroupFromImListResponseMessageType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="tns:ResponseType"/>
  </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/RemoveImContactFromGroup"
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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67.

```
<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/">
    </wsdl:input>
  </soap:operation>
</wsdl:operation>
```

```

    <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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67.

```
<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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67) 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 2.2.4.67.

```
<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/SetImListMigrationCompleted"
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 2.2.4.67) attribute set to "Success". The **ResponseCode** (as specified in [MS-OXWSCDATA] section 2.2.4.67) 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 2.2.4.67) attribute set to "Error". The **ResponseCode** (as specified in [MS-

OXWSCDATA] section 2.2.4.67) 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 2.2.4.67.

```
<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 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 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="AAMkAGQ1MjJmTBkLTc4Y2UtNDA5Ny04ZjU5LWI3MAAA="
          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 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="EQAAAABYAAAABtF8oI7i"/>
      <m:GroupId Id="AAMkAGQ1MjJjMTBkzAAAQKAAA="
                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="AAMkAGQ1MjJjMTBkLTc4Y2UtNDA5hQoTbWAAAAAQRAAA="
                ChangeKey="EgAAAA==" />
    </m:RemoveImGroup>
  </soap:Body>
</soap:Envelope>

```

The following example shows a successful response to a **RemoveImGroup** 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">
    <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 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/AddNewTelUriContactToGroup"/>
    <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/RemoveContactFromImList"/>
    <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/SetImListMigrationCompleted"/>
    <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 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: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: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: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:sequence>
  </xs:complexType>

```

```

    <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="SmtAddress" 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

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
8 Appendix C: Product Behavior	Updated list of supported products.	Major
8 Appendix C: Product Behavior	Updated list of supported products.	Major

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