

[MS-OXWSCOS]: Unified Contact Store Web Service Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
07/16/2012	0.1	New	Released new document.

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Preliminary

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 and groups.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

The following terms are defined in [\[MS-OXGLOS\]](#):

endpoint
instant messaging
mailbox
Simple Object Access Protocol (SOAP)
SOAP action
SOAP body
SOAP header
SOAP message
Web service
Web Services Description Language (WSDL)
WSDL message
WSDL operation
WSDL port type
XML namespace
XML namespace prefix
XML schema

The following terms are specific to this document:

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

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

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

[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>

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

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

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

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

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

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

1.2.2 Informative References

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OXDCLI] Microsoft Corporation, "[Autodiscover Publishing and Lookup Protocol Specification](#)".

[MS-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)".

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

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

1.3 Overview

This protocol describes the Unified Contact Store, which is a centralized storage mechanism for contacts for **instant messaging** clients. It provides two folders: ImContactList and QuickContacts. The ImContactList folder contains groups, which in turn refer to contacts. In a typical contact list, the PDLs represent 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.

This protocol provides operations for adding and removing instant messaging groups by adding and removing PDLs in the ImContactList folder, and adding, removing, and changing the group of a contact in the instant messaging groups by adding or removing a contact in the QuickContact folder, and then modifying the membership in the PDLs in the ImContactList folder.

This protocol simplifies integration with the Unified Contact Store. 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 (4)** to use for each operation.

This protocol uses the SOAP Protocol, as described in [\[SOAP1.1\]](#), to specify the structure information that is exchanged between the client and the server. This protocol uses the XML Protocol, 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.

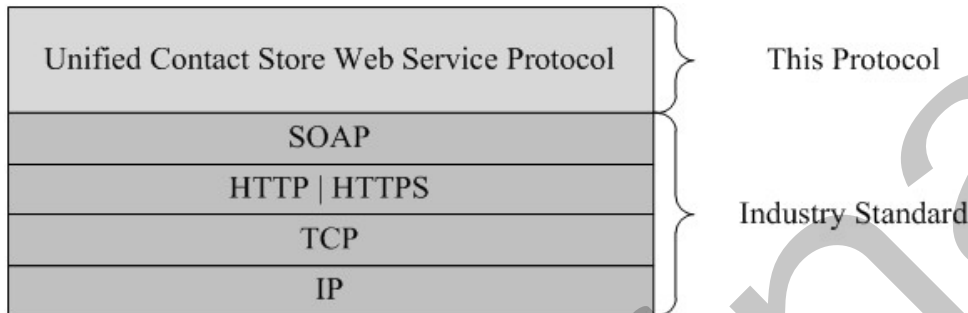


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

The endpoint (4) URL that 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 [\[MS-OXDCLI\]](#), is required to form the HTTP request to the Web server that hosts this protocol. The operations that this protocol defines cannot be accessed unless the correct endpoint (4) is identified in the HTTP Web requests that target this protocol.

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 **WSDL** version of the request is identified by using the **t:RequestServerVersion** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.5.9, and the version of the server responding to the request is identified by using the **t:ServerVersionInfo** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.5.10.
- **Security and Authentication Methods:** This protocol relies on the Web server that is hosting it to perform authentication.

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

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

Preliminary

2 Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The 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

The SOAP version used for this protocol is SOAP 1.1, as specified in [\[SOAP1.1\]](#).

This protocol relies on the Web server that hosts the application to perform authentication. 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 Web Services Description Language (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
m	http://schemas.microsoft.com/exchange/services/2006/messages	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
t	http://schemas.microsoft.com/exchange/services/2006/types	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsi	http://ws-i.org/schemas/conformanceClaim/	
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

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 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: Represents a single instant messaging group.

2.2.4.2 ImGroupType

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

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

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

DisplayName: Represents the display name for a new instant messaging contact or instant messaging group.

GroupType: Identifies the group class.

ExchangeStoreId: Represents the instant messaging group identifier.

MemberCorrelationKey: Represents the identifiers of the contacts that are part of the group.

ExtendedProperties: Contains an array of additional properties.

SmtpAddress: 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** 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: Represents an array of instant messaging groups.

Personas: Represents an array of contacts.

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: Represents an extended property for the Unified Contact Store. Extended properties are typically private properties on contacts 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.

Preliminary

3 Protocol Details

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.

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 operation creates a new instant messaging group from an existing distribution group.
AddImContactToGroup	The AddImContactToGroup operation adds an existing contact to an instant messaging group.
AddImGroup	The AddIMGroup operation creates a new instant messaging group in a mailbox .
AddNewImContactToGroup	The AddNewIMContactToGroup operation adds a new contact to an instant messaging group.
GetImItemList	The GetImItemList operation retrieves the identifiers of instant messaging contacts on the contact list.
GetImItems	The GetImItems operation retrieves the contact personas for the specified contacts, either by direct or indirect reference by specifying group identifiers.
RemoveContactFromImList	The RemoveContactFromImList operation removes the specified contact from all instant messaging groups.
RemoveDistributionGroupFromImList	The RemoveDistributionGroupFromImList operation removes a distribution group from an instant messaging list.
RemoveImContactFromGroup	The RemoveImContactFromGroup operation removes an

Operation	Description
	instant messaging contact from a group.
RemoveImGroup	The RemoveImGroup operation removes the instant messaging and all of the contacts in the group. If a contact is a member of only this group, it is removed from the QuickContacts folder.
SetImGroup	The SetImGroup operation changes the display name of an instant messaging group.
SetImListMigrationCompleted	The SetImListMigrationCompleted operation indicates whether the instant messaging contacts in a mailbox have been migrated to the Exchange server.

3.1.4.1 AddDistributionGroupToImList

The **AddDistributionGroupToImList** operation creates a new instant messaging group from an existing distribution group.

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

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

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

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.

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 **AddDistributionGroupToImList** WSDL message specification.

```
<wsdl:message name="AddDistributionGroupToImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **AddDistributionGroupToImList** WSDL message is the input message for the **SOAP action** <http://schemas.microsoft.com/exchange/services/2006/messages/AddDistributionGroupToImList>.

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

Part name	Element/type	Description
request	m:AddDistributionGroupToImList (section 3.1.4.1.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <1>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the AddDistributionGroupToImList operation request. <2>

3.1.4.1.1.2 AddDistributionGroupToImListSoapOut

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

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

```

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

```

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

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

Part name	Element/type	Description
AddDistributionGroupToImListResult	m:AddDistributionGroupToImListResponse (section 3.1.4.1.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

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 input data for the **AddDistributionGroupToImList** WSDL operation.

```

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

```

3.1.4.1.2.2 AddDistributionGroupToImListResponse

The result data for the **AddDistributionGroupToImList** WSDL operation.

```

<xs:element name="AddDistributionGroupToImListResponse"
type="m: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
AddDistributionGroupToImListType	Specifies a distribution group to be added to the instant messaging list.
AddDistributionGroupToImListResponseMessageType	Specifies the response message for the AddDistributionGroupToImList operation.

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.

```
<xs:complexType name="AddDistributionGroupToImListType"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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: Represents the SMTP address of the group.

DisplayName: 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.

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

ImGroup: 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** operation adds an existing contact to an instant messaging group.

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

The following is the WSDL binding specification of the **AddImContactToGroup** 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="m:AddImContactToGroupSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:AddImContactToGroupSoapIn" part="MailboxCulture" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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="m:AddImContactToGroupSoapOut" part="ServerVersion" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:output>
</wsdl:operation>
```

This operation can accept only existing contacts. If you want to add a new IM contact to the Unified Contact Store, use the **AddNewImContactToGroup** operation.

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 to a group.
AddImContactToGroupSoapOut	Specifies the response to the AddImContactToGroupSoapIn request.

3.1.4.2.1.1 AddImContactToGroupSoapIn

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

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

```
<wsdl:message name="AddImContactToGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **AddImContactToGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/AddImContactToGroup>.

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

Part name	Element/type	Description
request	m:AddImContactToGroup (section 3.1.4.2.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <3>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the AddImContactToGroup operation request. <4>

3.1.4.2.1.2 AddImContactToGroupSoapOut

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

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

```

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

```

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

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

Part name	Element/type	Description
AddImContactToGroupResult	m:AddImContactToGroupResponse (section 3.1.4.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

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 input data for the **AddImContactToGroup** WSDL operation.

```

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

```

3.1.4.2.2.2 AddImContactToGroupResponse

The result data for the **AddImContactToGroup** WSDL operation.

```

<xs:element name="AddImContactToGroupResponse"
type="m: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
AddImContactToGroupType	Specifies a request to add an instant messaging contact to a group.
AddImContactToGroupResponseMessageType	Specifies the response message for the AddImContactToGroup operation.

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 to a group.

```
<xs:complexType name="AddImContactToGroupType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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: Represents the identifier of the contact.

GroupId: Represents the identifier of the group.

3.1.4.2.3.2 AddImContactToGroupResponseMessageType

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

The **AddImContactToGroupResponseMessageType** complex type specifies the response message for the **AddImContactToGroup** operation.

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

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

3.1.4.3 AddImGroup

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

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

The following is the WSDL binding specification of the **AddImGroup** 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="m:AddImGroupSoapIn" part="Impersonation" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m:AddImGroupSoapIn" part="MailboxCulture" use="literal"
        xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
      <soap:header message="m: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="m: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 Exchange store identifier of the new group.

If a distribution list with the specified **DisplayName** is found, this operation fails.

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.

Message	Description
AddImGroupSoapOut	Specifies the response to the AddImGroupSoapIn request.

3.1.4.3.1.1 AddImGroupSoapIn

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

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

```
<wsdl:message name="AddImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **AddImGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/AddImGroup>.

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

Part name	Element/type	Description
request	m:AddImGroup (section 3.1.4.3.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <5>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the AddImGroup operation request. <6>

3.1.4.3.1.2 AddImGroupSoapOut

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

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

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

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

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

Part name	Element/type	Description
AddImGroupResult	m:AddImGroupResponse (section 3.1.4.3.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

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 input data for the **AddImGroup** WSDL operation.

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

3.1.4.3.2.2 AddImGroupResponse

The result data for the **AddImGroup** WSDL operation.

```
<xs:element name="AddImGroupResponse" type="m: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
AddImGroupType	Specifies a request to add an instant messaging group.
AddImGroupResponseMessageType	Specifies the response message for the AddImGoup operation.

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.

```

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

```

DisplayName: Represents the display name of the contact.

3.1.4.3.3.2 AddImGroupResponseMessageType

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

The **AddImGroupResponseMessageType** complex type specifies the response message for the **AddImGoup** operation.

```

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

```

ImGroup: 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** operation adds a new contact to an instant messaging group.

```

<wsdl:operation name="AddNewImContactToGroup" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:AddNewImContactToGroupSoapIn"/>

```

```

    <wsdl:output message="m:AddNewImContactToGroupSoapOut"/>
  </wsdl:operation>

```

The following is the WSDL binding specification of the **AddNewImContactToGroup** 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="m:AddNewImContactToGroupSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:AddNewImContactToGroupSoapIn" part="MailboxCulture" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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="m:AddNewImContactToGroupSoapOut" part="ServerVersion" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:output>
</wsdl:operation>

```

If there are already over 1000 contacts, this operation fails. If the contact already exists, this operation does nothing.

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 to a group.
AddNewImContactToGroupSoapOut	Specifies the response to the AddNewImContactToGroupSoapIn request.

3.1.4.4.1.1 AddNewImContactToGroupSoapIn

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

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

```

<wsdl:message name="AddNewImContactToGroupSoapIn"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **AddNewImContactToGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/AddNewImContactToGroup>.

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

Part name	Element/type	Description
request	m:AddNewImContactToGroup (section 3.1.4.4.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <7>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the AddNewImContactToGroup operation request. <8>

3.1.4.4.1.2 AddNewImContactToGroupSoapOut

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

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

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

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

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

Part name	Element/type	Description
AddNewImContactToGroupResult	m:AddNewImContactToGroupResponse (section 3.1.4.4.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

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 input data for the **AddNewImContactToGroup** WSDL operation.

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

3.1.4.4.2.2 AddNewImContactToGroupResponse

The result data for the **AddNewImContactToGroup** WSDL operation.

```
<xs:element name="AddNewImContactToGroupResponse"
type="m: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
AddNewImContactToGroupType	Specifies a request to add a new instant messaging contact to a group.
AddNewImContactToGroupResponseMessageType	Specifies the response message for an AddNewImContactToGroup operation.

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 to a group.

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

```

    <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: Represents the instant messaging address of the contact.

DisplayName: Represents the display name of the contact.

GroupId: Represents the identifier of the group.

3.1.4.4.3.2 AddNewImContactToGroupResponseMessageType

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

The **AddNewImContactToGroupResponseMessageType** complex type specifies the response message for an **AddNewImContactToGroup** operation.

```

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

```

Persona: Represents an instant messaging contact.

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 GetImItemList

The **GetImItemList** operation retrieves the identifiers of instant messaging contacts on the contact list.


```

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

```

The following is the WSDL binding specification of the **GetImItemList** 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="m:GetImItemListSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:GetImItemListSoapIn" part="MailboxCulture" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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="m:GetImItemListSoapOut" part="ServerVersion" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:output>
</wsdl:operation>

```

3.1.4.5.1 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.

3.1.4.5.1.1 GetImItemListSoapIn

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

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

```

<wsdl:message name="GetImItemListSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **GetImItemList** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/GetImItemList>.

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

Part name	Element/type	Description
request	m:GetImItemList (section 3.1.4.5.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <9>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the GetImItemList operation request. <10>

3.1.4.5.1.2 GetImItemListSoapOut

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

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

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

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

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

Part name	Element/type	Description
GetImItemListResult	m:GetImItemListResponse (section 3.1.4.5.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.5.2 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.

3.1.4.5.2.1 GetImItemList

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

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

3.1.4.5.2.2 GetImItemListResponse

The result data for the **GetImItemList** WSDL operation.

```
<xs:element name="GetImItemListResponse" type="m:GetImItemListResponseMessageType"
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
GetImItemListType	Specifies a request to retrieve an instant messaging item list.
GetImItemListResponseMessageType	Specifies the response message for a GetImItemList operation.

3.1.4.5.3.1 GetImItemListType

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

The **GetImItemListType** complex type specifies a request to retrieve an instant messaging item list.

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

ExtendedProperties: Contains an array of additional properties.

3.1.4.5.3.2 GetImItemListResponseMessageType

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

The **GetImItemListResponseMessageType** complex type specifies the response message for a **GetImItemList** operation.

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

ImItemList: Represents a list of instant messaging contacts.

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 GetImItems

The **GetImItems** operation retrieves the contact personas for the specified contacts, either by direct or indirect reference by specifying group identifiers.

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

The following is the WSDL binding specification of the **GetImItems** 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="m:GetImItemsSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:input>
</wsdl:operation>
```

```

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

```

3.1.4.6.1 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.

3.1.4.6.1.1 GetImItemsSoapIn

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

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

```

<wsdl:message name="GetImItemsSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **GetImItems** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/GetImItems>.

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

Part name	Element/type	Description
request	m:GetImItems (section 3.1.4.6.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <11>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are

Part name	Element/type	Description
	2.2.4.39)	defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the GetImItems operation request. <12>

3.1.4.6.1.2 GetImItemsSoapOut

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

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

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

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

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

Part name	Element/type	Description
GetImItemsResult	m:GetImItemsResponse (section 3.1.4.6.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.6.2 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.

3.1.4.6.2.1 GetImItems

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

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

3.1.4.6.2.2 GetImItemsResponse

The result data for the **GetImItems** WSDL operation.

```
<xs:element name="GetImItemsResponse" type="m:GetImItemsResponseMessageType"
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
GetImItemsType	Specifies a request to retrieve instant messaging items.
GetImItemsResponseMessageType	Specifies the response message for the GetImItems operation.

3.1.4.6.3.1 GetImItemsType

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

The **GetImItemsType** complex type specifies a request to retrieve instant messaging items.

```
<xs:complexType name="GetImItemsType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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: Represents the identifiers of the contacts.

GroupIds: Represents the identifiers of the groups.

ExtendedProperties: Contains an array of additional properties.

3.1.4.6.3.2 GetImItemsResponseMessageType

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

The **GetImItemsResponseMessageType** complex type specifies the response message for the **GetImItems** operation.

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

```

    <xs:element minOccurs="0" name="ImItemList" type="t:ImItemListType"/>
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

ImItemList: Represents a list of instant messaging contacts.

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 RemoveContactFromImList

The **RemoveContactFromImList** operation removes the specified contact from all instant messaging groups.

```

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

```

The following is the WSDL binding specification of the **RemoveContactFromImList** 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="m:RemoveContactFromImListSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:RemoveContactFromImListSoapIn" part="MailboxCulture"
      use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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="m:RemoveContactFromImListSoapOut" part="ServerVersion"
      use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:output>
</wsdl:operation>

```



```

</wsdl:output>
</wsdl:operation>

```

3.1.4.7.1 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 from the instant messaging list.
RemoveContactFromImListSoapOut	Specifies the response to the RemoveContactFromImListSoapIn request.

3.1.4.7.1.1 RemoveContactFromImListSoapIn

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

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

```

<wsdl:message name="RemoveContactFromImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **RemoveContactFromImList** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/RemoveContactFromImList>.

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

Part name	Element/type	Description
request	m:RemoveContactFromImList (section 3.1.4.7.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <13>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the RemoveContactFromList operation request. <14>

3.1.4.7.1.2 RemoveContactFromImListSoapOut

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

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

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

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

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

Part name	Element/type	Description
RemoveContactFromImListResult	m:RemoveContactFromImListResponse (section 3.1.4.7.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.7.2 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.

3.1.4.7.2.1 RemoveContactFromImList

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

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

3.1.4.7.2.2 RemoveContactFromImListResponse

The result data for the **RemoveContactFromImList** WSDL operation.

```
<xs:element name="RemoveContactFromImListResponse"
type="m:RemoveContactFromImListResponseMessageType"
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
RemoveContactFromImListType	Specifies a request to remove a contact from an instant messaging list.
RemoveContactFromImListResponseMessageType	Specifies the response message for a RemoveContactFromImList operation.

3.1.4.7.3.1 RemoveContactFromImListType

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

The **RemoveContactFromImListType** complex type specifies a request to remove a contact from an instant messaging list.

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

ContactId: Represents the identifier of the contact.

3.1.4.7.3.2 RemoveContactFromImListResponseMessageType

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

The **RemoveContactFromImListResponseMessageType** complex type specifies the response message for a **RemoveContactFromImList** operation.

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

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 RemoveDistributionGroupFromImList

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

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

The following is the WSDL binding specification of the **RemoveDistributionGroupFromImList** 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="m:RemoveDistributionGroupFromImListSoapIn" part="Impersonation"
      use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <soap:header message="m:RemoveDistributionGroupFromImListSoapIn" part="MailboxCulture"
      use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    <soap:header message="m: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="m:RemoveDistributionGroupFromImListSoapOut" part="ServerVersion"
      use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  </wsdl:output>
</wsdl:operation>
```

3.1.4.8.1 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.

3.1.4.8.1.1 RemoveDistributionGroupFromImListSoapIn

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

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

```
<wsdl:message name="RemoveDistributionGroupFromImListSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **RemoveDistributionGroupFromImList** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/RemoveDistributionGroupFromImList>.

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

Part name	Element/type	Description
request	m:RemoveDistributionGroupFromImList (section 3.1.4.8.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <15>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the RemoveDistributionGroupFromImList operation request. <16>

3.1.4.8.1.2 RemoveDistributionGroupFromImListSoapOut

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

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

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

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

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

Part name	Element/type	Description
RemoveDistributionGroupFromImListResult	m:RemoveDistributionGroupFromImListResponse (section 3.1.4.8.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.8.2 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.

Element	Description
	operation.

3.1.4.8.2.1 RemoveDistributionGroupFromImList

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

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

3.1.4.8.2.2 RemoveDistributionGroupFromImListResponse

The result data for the **RemoveDistributionGroupFromImList** WSDL operation.

```
<xs:element name="RemoveDistributionGroupFromImListResponse"
type="m:RemoveDistributionGroupFromImListResponseMessageType"
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
RemoveDistributionGroupFromImListType	Specifies a request to remove a distribution group from an instant messaging list.
RemoveDistributionGroupFromImListResponseMessageType	Specifies the response message for a RemoveDistributionGroupFromImList operation.

3.1.4.8.3.1 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.

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

GroupId: Represents the identifier of the group.

3.1.4.8.3.2 RemoveDistributionGroupFromImListResponseMessageType

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

The **RemoveDistributionGroupFromImListResponseMessageType** complex type specifies the response message for a **RemoveDistributionGroupFromImList** operation.

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

The **RemoveImContactFromGroup** operation removes an instant messaging contact from a group.

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

The following is the WSDL binding specification of the **RemoveImContactFromGroup** 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="m:RemoveImContactFromGroupSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
        <soap:header message="m:RemoveImContactFromGroupSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
          <soap:header message="m: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="m:RemoveImContactFromGroupSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </wsdl:output>
</wsdl:operation>

```

3.1.4.9.1 Messages

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

Message	Description
RemoveImContactFromGroupSoapIn	Contains the inbound SOAP message .
RemoveImContactFromGroupSoapOut	Contains the outbound SOAP message.

3.1.4.9.1.1 RemoveImContactFromGroupSoapIn

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

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

```

<wsdl:message name="RemoveImContactFromGroupSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **RemoveImContactFromGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImContactFromGroup>.

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

Part name	Element/type	Description
request	m:RemoveImContactFromGroup (section 3.1.4.9.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <17>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures

Part name	Element/type	Description
	2.2.4.39)	are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the RemoveImContactFromGroup operation request. <18>

3.1.4.9.1.2 RemoveImContactFromGroupSoapOut

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

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

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

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

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

Part name	Element/type	Description
RemoveImContactFromGroupResult	m:RemoveImContactFromGroupResponse (section 3.1.4.9.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.9.2 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.

3.1.4.9.2.1 RemoveImContactFromGroup

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

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

3.1.4.9.2.2 RemoveImContactFromGroupResponse

The result data for the **RemoveImContactFromGroup** WSDL operation.

```
<xs:element name="RemoveImContactFromGroupResponse"
type="m:RemoveImContactFromGroupResponseMessageType"
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
RemoveImContactFromGroupType	Specifies a request to remove an instant messaging contact from a group.
RemoveImContactFromGroupResponseMessageType	Specifies the response message for a RemoveImContactFromGroup operation.

3.1.4.9.3.1 RemoveImContactFromGroupType

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

The **RemoveImContactFromGroupType** complex type specifies a request to remove an instant messaging contact from a group.

```
<xs:complexType name="RemoveImContactFromGroupType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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: Represents the identifier of the contact.

GroupId: Represents the identifier of the group.

3.1.4.9.3.2 RemoveImContactFromGroupResponseMessageType

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

The **RemoveImContactFromGroupResponseMessageType** complex type specifies the response message for a **RemoveImContactFromGroup** operation.

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

3.1.4.9.4 Simple Types

None.

3.1.4.9.5 Attributes

None.

3.1.4.9.6 Groups

None.

3.1.4.9.7 Attribute Groups

None.

3.1.4.10 RemoveImGroup

The **RemoveImGroup** operation removes the instant messaging and all of the contacts in the group. If a contact is a member of only this group, it is removed from the QuickContacts folder.

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

The following is the WSDL binding specification of the **RemoveImGroup** 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="m:RemoveImGroupSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:RemoveImGroupSoapIn" part="MailboxCulture" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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:operation>
```

```

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

```

3.1.4.10.1 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.

3.1.4.10.1.1 RemoveImGroupSoapIn

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

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

```

<wsdl:message name="RemoveImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **RemoveImGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/RemoveImGroup>.

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

Part name	Element/type	Description
request	m:RemoveImGroup (section 3.1.4.10.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <19>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the schema version for the RemoveImGroup operation

Part name	Element/type	Description
	2.2.5.9)	request. <20>

3.1.4.10.1.2 RemoveImGroupSoapOut

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

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

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

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

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

Part name	Element/type	Description
RemoveImGroupResult	m:RemoveImGroupResponse (section 3.1.4.10.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.10.2 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.
RemoveImGroupResponse	The result data for the RemoveImGroup WSDL operation.

3.1.4.10.2.1 RemoveImGroup

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

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

3.1.4.10.2.2 RemoveImGroupResponse

The result data for the **RemoveImGroup** WSDL operation.

```
<xs:element name="RemoveImGroupResponse" type="m:RemoveImGroupResponseMessageType"
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
RemoveImGroupType	Specifies a request to remove an instant messaging group.
RemoveImGroupResponseMessageType	Specifies the response message for a RemoveImGroup operation.

3.1.4.10.3.1 RemoveImGroupType

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

The **RemoveImGroupType** complex type specifies a request to remove an instant messaging group.

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

GroupId: Represents the identifier of the group.

3.1.4.10.3.2 RemoveImGroupResponseMessageType

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

The **RemoveImGroupResponseMessageType** complex type specifies the response message for a **RemoveImGroup** operation.

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

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

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

The following is the WSDL binding specification of the **SetImGroup** 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="m:SetImGroupSoapIn" part="Impersonation" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m:SetImGroupSoapIn" part="MailboxCulture" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <soap:header message="m: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="m:SetImGroupSoapOut" part="ServerVersion" use="literal"
      xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
  </wsdl:output>
</wsdl:operation>
```

3.1.4.11.1 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 an instant messaging group.
SetImGroupSoapOut	Specifies the response to the SetImGroupSoapIn request.

3.1.4.11.1.1 SetImGroupSoapIn

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

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

```
<wsdl:message name="SetImGroupSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **SetImGroup** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/SetImGroup>.

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

Part name	Element/type	Description
request	m:SetImGroup section 3.1.4.11.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <21>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the SetImGroup operation request. <22>

3.1.4.11.1.2 SetImGroupSoapOut

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

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

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

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

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

Part name	Element/type	Description
SetImGroupResult	m:SetImGroupResponse (section 3.1.4.11.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.11.2 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.

3.1.4.11.2.1 SetImGroup

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

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

3.1.4.11.2.2 SetImGroupResponse

The result data for the **SetImGroup** WSDL operation.

```
<xs:element name="SetImGroupResponse" type="m:SetImGroupResponseMessageType"
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
SetImGroupType	Specifies a request to set an instant messaging group.
SetImGroupResponseMessageType	Specifies the response message for a SetImGroup operation.

3.1.4.11.3.1 SetImGroupType

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

The **SetImGroupType** complex type specifies a request to set an instant messaging group.

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

```

<xs:complexContent mixed="false">
  <xs:extension base="m: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: Represents the identifier of the group.

NewDisplayName: Represents the new display name of the contact.

3.1.4.11.3.2 SetImGroupResponseMessageType

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

The **SetImGroupResponseMessageType** complex type specifies the response message for a **SetImGroup** operation.

```

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

The **SetImListMigrationCompleted** operation indicates whether the instant messaging contacts in a mailbox have been migrated to the Exchange server.

```

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

```

```
</wsdl:operation>
```

The following is the WSDL binding specification of the **SetImListMigrationCompleted** 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="m:SetImListMigrationCompletedSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
        <soap:header message="m:SetImListMigrationCompletedSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
          <soap:header message="m: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="m: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 is set on the user's Active Directory object.

3.1.4.12.1 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 instant messaging migration to the Exchange server is complete.
SetImListMigrationCompletedSoapOut	Specifies the response to the SetImListMigrationCompletedSoapIn request.

3.1.4.12.1.1 SetImListMigrationCompletedSoapIn

The **SetImListMigrationCompletedSoapIn** WSDL message specifies the request to indicate whether the instant messaging migration to the Exchange server is complete.

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

```
<wsdl:message name="SetImListMigrationCompletedSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m: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 **SetImListMigrationCompleted** WSDL message is the input message for the SOAP action <http://schemas.microsoft.com/exchange/services/2006/messages/SetImListMigrationCompleted>.

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

Part name	Element/type	Description
request	m:SetImListMigrationCompleted (section 3.1.4.12.2.1)	Specifies the SOAP body of the request containing the information that is required to query for availability.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.5.3)	Specifies a SOAP header that identifies the user whom the client is impersonating. <23>
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to be used for accessing the mailbox. The cultures are defined in [RFC3066] .
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the SetImListMigrationCompleted operation request. <24>

3.1.4.12.1.2 SetImListMigrationCompletedSoapOut

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

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

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

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

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

Part name	Element/type	Description
SetImListMigrationCompletedResult	m:SetImListMigrationCompletedResponse (section 3.1.4.12.2.2)	Specifies the SOAP body of the response that contains the requested availability information.
ServerVersion	t:ServerVersionInfo	Specifies a SOAP

Part name	Element/type	Description
	([MS-OXWSCDATA] section 2.2.5.10)	header that identifies the server version for the response.

3.1.4.12.2 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.

3.1.4.12.2.1 SetImListMigrationCompleted

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

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

3.1.4.12.2.2 SetImListMigrationCompletedResponse

The result data for the **SetImListMigrationCompleted** WSDL operation.

```
<xs:element name="SetImListMigrationCompletedResponse"
type="m:SetImListMigrationCompletedResponseMessageType"
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
SetImListMigrationCompletedType	Specifies whether the migration of a contact list from Exchange to an instant messaging system is complete
SetImListMigrationCompletedResponseMessageType	Specifies the response message for the SetImListMigrationCompleted operation.

3.1.4.12.3.1 SetImListMigrationCompletedType

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

The **SetImListMigrationCompletedType** complex type specifies whether the migration of a contact list from Exchange to an instant messaging system is complete.

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

ImListMigrationCompleted: Contains a Boolean value that indicates whether migration is complete.

3.1.4.12.3.2 SetImListMigrationCompletedResponseMessageType

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

The **SetImListMigrationCompletedResponseMessageType** complex type specifies the response message for the **SetImListMigrationCompleted** operation.

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

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following example of an **AddImGroup** 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="Exchange2012" />
    <t:MailboxCulture>en-US</t:MailboxCulture>
    <t:TimeZoneContext>
      <t:TimeZoneDefinition Id="GMT Standard Time"/>
    </t:TimeZoneContext>
  </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** operation request. The Exchange 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="Exchange2012"

      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="AAMkAGQ1MjJjMTBkLTc4Y2UtdNDA5Ny04ZjU5LWI3MAAA="
          ChangeKey="EgAAAA=="

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



```

    </AddImGroupResponse>
  </s:Body>
</s:Envelope>

```

The following code example shows how to add a contact to an IM 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="Exchange2012" />
    <t:MailboxCulture>en-US</t:MailboxCulture>
  </soap:Header>
  <soap:Body >
    <m:AddImContactToGroup>
      <m:ContactId Id="AAMkAGQ1MjJjMTBkLTc4Y2AA="
        ChangeKey="EQAAABYAAABtF8oI7i" />
      <m:GroupId Id="AAMkAGQ1MjJjMTBkzAAAQKAAA="
        ChangeKey="EgAAAA==" />
    </m:AddImContactToGroup>
  </soap:Body>
</soap:Envelope>

```

The following example shows a successful response to an **AddImContactToGroup** 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="Exchange2012"

      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** operation request shows how to remove an IM 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="Exchange2012" />
    <t:MailboxCulture>en-US</t:MailboxCulture>
    <t:TimeZoneContext>
      <t:TimeZoneDefinition Id="GMT Standard Time"/>
    </t:TimeZoneContext>
  </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** 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="Exchange2012"

      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

This protocol relies on the web server that hosts the application to perform authentication. The protocol SHOULD use secure communications by means of HTTPS, as defined in [\[RFC2818\]](#).

5.2 Index of Security Parameters

None.

Preliminary

6 Appendix A: Full WSDL

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

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
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/>
  <wsdl:message name="AddDistributionGroupToImListSoapIn">
    <wsdl:part name="request" element="m: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="m:AddDistributionGroupToImListResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddImContactToGroupSoapIn">
    <wsdl:part name="request" element="m: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="m:AddImContactToGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddImGroupSoapIn">
    <wsdl:part name="request" element="m: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="m:AddImGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="AddNewImContactToGroupSoapIn">
    <wsdl:part name="request" element="m: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="m:AddNewImContactToGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="GetImItemListSoapIn">
    <wsdl:part name="request" element="m: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:definitions>
```

```

<wsdl:message name="GetImItemListSoapOut">
  <wsdl:part name="GetImItemListResult" element="m:GetImItemListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="GetImItemsSoapIn">
  <wsdl:part name="request" element="m: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="m:GetImItemsResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="RemoveContactFromImListSoapIn">
  <wsdl:part name="request" element="m: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="m:RemoveContactFromImListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="RemoveDistributionGroupFromImListSoapIn">
  <wsdl:part name="request" element="m: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="m:RemoveDistributionGroupFromImListResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="RemoveImContactFromGroupSoapIn">
  <wsdl:part name="request" element="m: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="m:RemoveImContactFromGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="RemoveImGroupSoapIn">
  <wsdl:part name="request" element="m: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="m:RemoveImGroupResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="SetImGroupSoapIn">
  <wsdl:part name="request" element="m: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="m:SetImGroupResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="SetImListMigrationCompletedSoapIn">
    <wsdl:part name="request" element="m: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="m:SetImListMigrationCompletedResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="AddImContactToGroup">
      <wsdl:input message="m:AddImContactToGroupSoapIn"/>
      <wsdl:output message="m:AddImContactToGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddNewImContactToGroup">
      <wsdl:input message="m:AddNewImContactToGroupSoapIn"/>
      <wsdl:output message="m:AddNewImContactToGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddImGroup">
      <wsdl:input message="m:AddImGroupSoapIn"/>
      <wsdl:output message="m:AddImGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="AddDistributionGroupToImList">
      <wsdl:input message="m:AddDistributionGroupToImListSoapIn"/>
      <wsdl:output message="m:AddDistributionGroupToImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetImItemList">
      <wsdl:input message="m:GetImItemListSoapIn"/>
      <wsdl:output message="m:GetImItemListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetImItems">
      <wsdl:input message="m:GetImItemsSoapIn"/>
      <wsdl:output message="m:GetImItemsSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveContactFromImList">
      <wsdl:input message="m:RemoveContactFromImListSoapIn"/>
      <wsdl:output message="m:RemoveContactFromImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveDistributionGroupFromImList">
      <wsdl:input message="m:RemoveDistributionGroupFromImListSoapIn"/>
      <wsdl:output message="m:RemoveDistributionGroupFromImListSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveImContactFromGroup">
      <wsdl:input message="m:RemoveImContactFromGroupSoapIn"/>
      <wsdl:output message="m:RemoveImContactFromGroupSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="RemoveImGroup">
      <wsdl:input message="m:RemoveImGroupSoapIn"/>
      <wsdl:output message="m:RemoveImGroupSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>

```

```

</wsdl:operation>
<wsdl:operation name="SetImGroup">
  <wsdl:input message="m:SetImGroupSoapIn"/>
  <wsdl:output message="m:SetImGroupSoapOut"/>
</wsdl:operation>
<wsdl:operation name="SetImListMigrationCompleted">
  <wsdl:input message="m:SetImListMigrationCompletedSoapIn"/>
  <wsdl:output message="m:SetImListMigrationCompletedSoapOut"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ExchangeServiceBinding" type="m: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="m:AddDistributionGroupToImListSoapIn" part="Impersonation"
use="literal"/>
      <soap:header message="m:AddDistributionGroupToImListSoapIn" part="MailboxCulture"
use="literal"/>
      <soap:header message="m:AddDistributionGroupToImListSoapIn" part="RequestVersion"
use="literal"/>
      <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" parts="AddDistributionGroupToImListResult"/>
      <soap:header message="m: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="m:AddImContactToGroupSoapIn" part="Impersonation"
use="literal"/>
      <soap:header message="m:AddImContactToGroupSoapIn" part="MailboxCulture"
use="literal"/>
      <soap:header message="m:AddImContactToGroupSoapIn" part="RequestVersion"
use="literal"/>
      <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" parts="AddImContactToGroupResult"/>
      <soap:header message="m: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="m:AddImGroupSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="m:AddImGroupSoapIn" part="MailboxCulture" use="literal"/>

```

```

        <soap:header message="m:AddImGroupSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="AddImGroupResult"/>
        <soap:header message="m:AddImGroupSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="AddNewImContactToGroup">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/AddNewImContactToGroup"/>
    <wsdl:input>
        <soap:header message="m:AddNewImContactToGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="m:AddNewImContactToGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="m:AddNewImContactToGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="AddNewImContactToGroupResult"/>
        <soap:header message="m:AddNewImContactToGroupSoapOut" 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="m:GetImItemListSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="m:GetImItemListSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="m:GetImItemListSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="GetImItemListResult"/>
        <soap:header message="m: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="m:GetImItemsSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="m:GetImItemsSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="m:GetImItemsSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="GetImItemsResult"/>
        <soap:header message="m: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="m:RemoveContactFromImListSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="m:RemoveContactFromImListSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="m:RemoveContactFromImListSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="RemoveContactFromImListResult"/>
        <soap:header message="m: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="m:RemoveDistributionGroupFromImListSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="m:RemoveDistributionGroupFromImListSoapIn"
part="MailboxCulture" use="literal"/>
        <soap:header message="m:RemoveDistributionGroupFromImListSoapIn"
part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="RemoveDistributionGroupFromImListResult"/>
        <soap:header message="m: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="m:RemoveImContactFromGroupSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="m:RemoveImContactFromGroupSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="m:RemoveImContactFromGroupSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" parts="RemoveImContactFromGroupResult"/>
        <soap:header message="m: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="m:RemoveImGroupSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="m:RemoveImGroupSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="m:RemoveImGroupSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
    </wsdl:input>

```

```

</wsdl:input>
<wsdl:output>
  <soap:body use="literal" parts="RemoveImGroupResult"/>
  <soap:header message="m: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="m:SetImGroupSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="m:SetImGroupSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="m:SetImGroupSoapIn" part="RequestVersion" use="literal"/>
    <soap:body use="literal" parts="request"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="SetImGroupResult"/>
    <soap:header message="m:SetImGroupSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="SetImListMigrationCompleted">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SetImListMigrationCo
mpleted"/>
  <wsdl:input>
    <soap:header message="m:SetImListMigrationCompletedSoapIn" part="Impersonation"
use="literal"/>
    <soap:header message="m:SetImListMigrationCompletedSoapIn" part="MailboxCulture"
use="literal"/>
    <soap:header message="m:SetImListMigrationCompletedSoapIn" part="RequestVersion"
use="literal"/>
    <soap:body use="literal" parts="request"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="SetImListMigrationCompletedResult"/>
    <soap:header message="m:SetImListMigrationCompletedSoapOut" part="ServerVersion"
use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

7 Appendix B: Full XML Schema

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

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

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

This section contains the full XML schema for messages.

```
<?xml version="1.0"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2012" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
  <xs:include schemaLocation="MS-OXWSCOS-messages.xsd"/>
  <xs:complexType name="AddDistributionGroupToImListType">
    <xs:complexContent mixed="false">
      <xs:extension base="m: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="m: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="m:AddDistributionGroupToImListResponseMessageType"/>
  <xs:element name="AddDistributionGroupToImList" type="m:AddDistributionGroupToImListType"/>
  <xs:complexType name="AddImContactToGroupType">
    <xs:complexContent mixed="false">
      <xs:extension base="m: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="m:ResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
```

```

    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AddImContactToGroupResponse"
type="m:AddImContactToGroupResponseMessageType"/>
  <xs:element name="AddImContactToGroup" type="m:AddImContactToGroupType"/>
  <xs:element name="AddImGroup" type="m:AddImGroupType"/>
  <xs:complexType name="AddImGroupResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="m: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="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="AddImGroupResponse" type="m:AddImGroupResponseMessageType"/>
  <xs:element name="AddNewImContactToGroup" type="m:AddNewImContactToGroupType"/>
  <xs:element name="AddNewImContactToGroupResponse"
type="m:AddNewImContactToGroupResponseMessageType"/>
  <xs:complexType name="AddNewImContactToGroupResponseMessageType">
    <xs:complexContent mixed="false">
      <xs:extension base="m: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="m: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="GetImItemListType">
    <xs:complexContent mixed="false">
      <xs:extension base="m: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="m:GetImItemListType"/>

```

```

<xs:complexType name="GetImItemListResponseMessageType">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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="m:GetImItemListResponseMessageType"/>
<xs:complexType name="GetImItemsType">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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="m:GetImItemsType"/>
<xs:complexType name="GetImItemsResponseMessageType">
  <xs:complexContent mixed="false">
    <xs:extension base="m: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="m:GetImItemsResponseMessageType"/>
<xs:complexType name="RemoveContactFromImListType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="ContactId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="RemoveContactFromImList" type="m:RemoveContactFromImListType"/>
<xs:complexType name="RemoveContactFromImListResponseMessageType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:ResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
<xs:element name="RemoveContactFromImListResponse"
type="m:RemoveContactFromImListResponseMessageType"/>
<xs:complexType name="RemoveDistributionGroupFromImListType">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="GroupId" type="t:ItemIdType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>

```

```

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

```

```

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

```

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

This section contains the full XML schema for types.

```

<?xml version="1.0"?>
<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
version="Exchange2012" id="types" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSCDATA-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSBTRF-types.xsd"/>
  <xs:complexType name="ArrayOfImGroupType">
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="ImGroup" type="t:ImGroupType"/>
    </xs:choice>
  </xs:complexType>
  <xs:complexType name="ImGroupType">
    <xs:sequence>
      <xs:element name="DisplayName" type="t:NonEmptyStringType"/>
      <xs:element name="GroupType" type="t:NonEmptyStringType"/>
      <xs:element minOccurs="0" name="ExchangeStoreId" type="t:ItemIdType"/>
      <xs:element minOccurs="0" name="MemberCorrelationKey"
type="t:NonEmptyArrayOfItemIdsType"/>
      <xs:element minOccurs="0" name="ExtendedProperties"
type="t:NonEmptyArrayOfExtendedPropertyType"/>
      <xs:element minOccurs="0" name="SmtpAddress" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ImItemListType">
    <xs:sequence>
      <xs:element minOccurs="0" name="Groups" type="t:ArrayOfImGroupType"/>
      <xs:element minOccurs="0" name="Personas" type="t:ArrayOfPeopleType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NonEmptyArrayOfExtendedFieldURIs">
    <xs:choice maxOccurs="unbounded">

```

```
    <xs:element name="ExtendedProperty" type="t:PathToExtendedFieldType"/>
  </xs:choice>
</xs:complexType>
</xs:schema>
```

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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 released service packs:

- Microsoft® Exchange Server 2013 Preview
- Microsoft® Lync® 2013 Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

<1> [Section 3.1.4.1.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<2> [Section 3.1.4.1.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<3> [Section 3.1.4.2.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<4> [Section 3.1.4.2.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<5> [Section 3.1.4.3.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<6> [Section 3.1.4.3.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<7> [Section 3.1.4.4.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<8> [Section 3.1.4.4.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<9> [Section 3.1.4.5.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<10> [Section 3.1.4.5.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<11> [Section 3.1.4.6.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<12> [Section 3.1.4.6.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<13> [Section 3.1.4.7.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<14> [Section 3.1.4.7.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<15> [Section 3.1.4.8.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<16> [Section 3.1.4.8.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<17> [Section 3.1.4.9.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<18> [Section 3.1.4.9.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<19> [Section 3.1.4.10.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<20> [Section 3.1.4.10.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<21> [Section 3.1.4.11.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<22> [Section 3.1.4.11.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

<23> [Section 3.1.4.12.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **Impersonation** header. The **Impersonation** header was introduced in Exchange 2010 SP2.

<24> [Section 3.1.4.12.1.1](#): Exchange 2007, Exchange 2010, and Exchange 2010 SP1 do not use the **RequestVersion** header. The **RequestVersion** header was introduced in Exchange 2010 SP2.

9 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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