

# [MS-OXWSCONV]: Conversations Web Service Protocol Specification

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## Revision Summary

Date	Revision History	Revision Class	Comments
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08/04/2010	0.2	Minor	Clarified the meaning of the technical content.
11/03/2010	0.2	No change	No changes to the meaning, language, or formatting of the technical content.
03/18/2011	1.0	Major	Significantly changed the technical content.
08/05/2011	2.0	Major	Significantly changed the technical content.
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01/20/2012	3.0	Major	Significantly changed the technical content.

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# 1 Introduction

The Conversations Web Service Protocol enables a protocol client to manage items that can be organized in a conversation. The typical scenarios covered by this protocol involve finding items in a conversation and applying actions to items in a conversation.

Sections 1.8, 2, and 3 of this specification are normative and contain RFC 2119 language. Sections 1.5 and 1.9 are also normative but cannot contain RFC 2119 language. 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)**  
**XML**

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

**endpoint**  
**mailbox**  
**SOAP action**  
**SOAP body**  
**SOAP header**  
**SOAP message**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL port type**  
**XML namespace**  
**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 Specification documents do not include a publishing year because links are to the latest version of the 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](mailto: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](#)".

[MS-OXWSCORE] Microsoft Corporation, "[Core Items Web Service Protocol Specification](#)".

[MS-OXWSFOLD] Microsoft Corporation, "[Folders and Folder Permissions Web Service Protocol Specification](#)".

[MS-OXWSSRCH] Microsoft Corporation, "[Mailbox Search Web Service Protocol Specification](#)".

[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>

[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](#)".

### 1.3 Overview

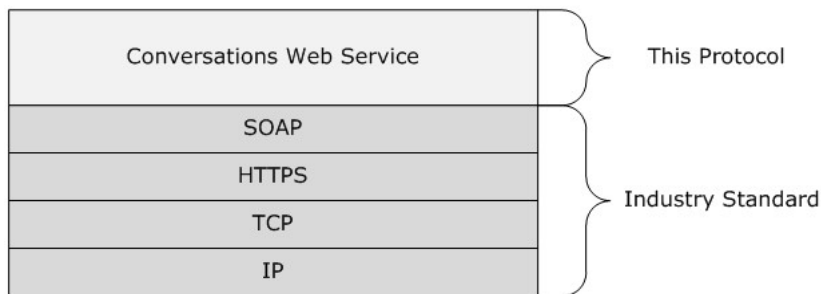
Conversations are a way to organize related e-mail messages in a **mailbox** based on the subject of the messages. By accessing messages based on the message subject, servers and clients can manage more message items with fewer actions. The Conversations Web Service Protocol enables clients to find message items that are grouped into conversations and then manage the grouped items with a single operation.

### 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 exchanged between the client and the server. This protocol uses the **XML** Protocol, as described in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), to describe the message content sent to and from the server.

The Conversations Web Service Protocol uses the SOAP Protocol, as described in [\[SOAP1.1\]](#), over **HTTPS**, which is described in [\[RFC2818\]](#), as shown in the following layering diagram.



**Figure 1: Conversations Web Service Protocol HTTPS stack**

## 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

The Conversations Web Service Protocol is applicable to environments that use Web services to implement conversations in a user's mailbox. 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 specified in section [2.1](#).
- **Protocol Versions:** This protocol specifies 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 2.2.4.9, and the version of the server responding to the request is identified by using the **t:ServerVersionInfo** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.4.10.
- **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.

## 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 defined 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 defined in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and Web Services Description Language (WSDL), as defined in [\[WSDL\]](#).

#### 2.2.1 Namespaces

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

Prefix	Namespace URI	Reference
soap	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
t	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a>
m	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
none	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
none	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	

#### 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**

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

#### **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.

#### **2.2.9 Common Data Structures**

This specification does not define any common data structure definitions.

## 3 Protocol Details

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

### 3.1 ExchangeServicePortType Server Details

The Conversations Web Service Protocol defines a single WSDL port type.

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#### 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 WSDL operations as defined by this specification.

Operation name	Description
<b>ApplyConversationAction</b> (section <a href="#">3.1.4.3</a> )	Specifies the WSDL messages for applying conversation actions.
<b>FindConversation</b> (section <a href="#">3.1.4.1</a> )	Specifies the WSDL messages for finding conversations.

The **ApplyConversationAction** operation requires a target conversation. The target conversation can be identified by the **FindConversation** operation.

##### 3.1.4.1 FindConversation

The **FindConversation** operation specifies the WSDL messages for finding conversations in a mailbox.

The following is the WSDL port type definition of this operation.

```
<wsdl:operation name="FindConversation">
  <wsdl:input message="tns:FindConversationSoapIn"/>
  <wsdl:output message="tns:FindConversationSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification for this operation.

```

<wsdl:operation name="FindConversation">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/FindConversation" />
  <wsdl:input>
    <soap:body parts="request" use="literal" />
    <soap:header message="tns:FindConversationSoapIn" part="RequestVersion" use="literal"
/>
  />
    <soap:header message="tns:FindConversationSoapIn" part="Impersonation" use="literal"
/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="FindConversationResult" use="literal" />
    <soap:header message="tns:FindConversationSoapOut" part="ServerVersion" use="literal"
/>
  </wsdl:output>
</wsdl:operation>

```

### 3.1.4.1.1 Messages

The following table lists and describes the WSDL message definitions that are specific to the **FindConversation** operation.

Message name	Description
<b>FindConversationSoapIn</b> (section <a href="#">3.1.4.1.1.1</a> )	Specifies the <b>SOAP message</b> that represents a request for a collection of conversations.
<b>FindConversationSoapOut</b> (section <a href="#">3.1.4.1.1.2</a> )	Specifies the SOAP message that contains a collection of conversations.

#### 3.1.4.1.1.1 tns:FindConversationSoapIn Message

The **FindConversationSoapIn** WSDL message specifies the SOAP message that represents a request to find a collection of conversations.

```

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

```

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

The parts of the **FindConversationSoapIn** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>request</b>	<b>tns:FindConversation</b> (section <a href="#">3.1.4.1.2.1</a> )	Specifies the <b>SOAP body</b> of the request to find a conversation. This part is required.
<b>Impersonation</b>	<b>t:ExchangeImpersonation</b> ([ <a href="#">MS-OXWSCDATA</a> ] section 2.2.4.3)	Specifies a <b>SOAP header</b> that identifies the user whom the client application is

Part name	Element/type	Description
		impersonating. This part is optional.
<b>RequestVersion</b>	<b>t:RequestServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.9)	Specifies a SOAP header that identifies the schema version for the <b>FindConversation</b> operation request.

### 3.1.4.1.1.2 tns:FindConversationSoapOut Message

The **FindConversationSoapOut** WSDL message specifies the server response SOAP message that contains a collection of conversations.

```
<wsdl:message name="FindConversationSoapOut">
  <wsdl:part name="FindConversationResult" element="tns:FindConversationResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

The parts of the **FindConversationSoapOut** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>FindConversationResult</b>	<b>FindConversationResponse</b> (section <a href="#">3.1.4.1.2.2</a> )	Specifies the SOAP body of the response to a <b>FindConversation</b> operation request.
<b>ServerVersion</b>	<b>ServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.10)	Specifies the SOAP header that identifies the server version for the response.

### 3.1.4.1.2 Elements

The following table lists and describes the XML schema element definitions that are specific to the **FindConversation** operation.

Element name	Description
<b>FindConversation</b> (section <a href="#">3.1.4.1.2.1</a> )	Specifies a request to find conversations in a mailbox.
<b>FindConversationResponse</b> (section <a href="#">3.1.4.1.2.2</a> )	Specifies a response that contains a set of conversations found in a mailbox.

#### 3.1.4.1.2.1 FindConversation Element

The **FindConversation** element specifies a request to find conversations in a mailbox.

```
<xs:element name="FindConversation"
  type="m:FindConversationType"
/>
```

### 3.1.4.1.2.2 FindConversationResponse Element

The **FindConversationResponse** element specifies a response that contains the results of an attempt to find a conversation in a mailbox.

```
<xs:element name="FindConversationResponse"
  type="m:FindConversationResponseMessageType"
/>
```

### 3.1.4.1.3 Complex Types

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

Complex type name	Description
<b>ArrayOfConversationsType</b> (section <a href="#">3.1.4.1.3.1</a> )	Specifies an array of conversations that are returned in the response.
<b>ArrayOfItemClassType</b> (section <a href="#">3.1.4.1.3.2</a> )	Specifies an array of unique item classes that are used by the set of items in the conversation.
<b>ConversationType</b> (section <a href="#">3.1.4.1.3.4</a> )	Specifies a single conversation.
<b>FindConversationType</b> (section <a href="#">3.1.4.1.3.5</a> )	Specifies the search options to be used in searches for conversations.
<b>FindConversationResponseMessageType</b> (section <a href="#">3.1.4.1.3.6</a> )	Specifies the results of an attempt to find conversations in a folder.

#### 3.1.4.1.3.1 t:ArrayOfConversationsType Complex Type

The **ArrayOfConversationsType** complex type specifies an array of conversations that are returned in the response.

```
<xs:complexType name="ArrayOfConversationsType">
  <xs:choice
    minOccurs="0"
    maxOccurs="unbounded"
  >
    <xs:element name="Conversation"
      type="t:ConversationType"
    />
  </xs:choice>
</xs:complexType>
```

The following table lists and describes the child element of the **ArrayOfConversationsType** complex type.

Element name	Type	Description
<b>Conversation</b>	<a href="#">t:ConversationType</a> (section <a href="#">3.1.4.1.3.4</a> )	Specifies a single conversation.

### 3.1.4.1.3.2 t:ArrayOfItemClassType Complex Type

The **ArrayOfItemClassType** complex type specifies an array of unique item classes.

```
<xs:complexType name="ArrayOfItemClassType">
  <xs:choice
    minOccurs="0"
    maxOccurs="unbounded"
  >
    <xs:element name="ItemClass"
      type="t:ItemClassType"
    />
  </xs:choice>
</xs:complexType>
```

The following table lists the child element of the **ArrayOfConversationsType** complex type.

Element name	Type	Description
<b>ItemClass</b>	<b>t:ItemClassType</b> ( <a href="#">IMS-OXWSCORE</a> section 2.2.5.3)	Specifies a unique item class.

### 3.1.4.1.3.3 t:ConversationResponseShapeType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationResponseShapeType** complex type specifies the properties that are returned for conversation items returned in the response. [<1>](#)

```
<xs:complexType name="ConversationResponseShapeType">
  <xs:sequence>
    <xs:element name="BaseShape" type="t:DefaultShapeNamesType" />
    <xs:element name="AdditionalProperties" type="t:NonEmptyArrayOfPathsToElementType"
      minOccurs="0" />
  </xs:sequence>
</xs:complexType>
```

The following table lists the elements of the **ConversationResponseShapeType** complex type.

Element name	Type	Description
<b>BaseShape</b>	<b>t:DefaultShapeNamesType</b>	Specifies the base properties to return in the response.
<b>AdditionalProperties</b>	<b>t:NonEmptyArrayOfPathsToElementType</b>	Specifies the additional properties to be returned in the response.

### 3.1.4.1.3.4 t:ConversationType Complex Type

**Note** Some of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure. For information about specific differences between versions, see the behavior notes that are provided in the Product Behavior appendix.

The **ConversationType** complex type specifies a single conversation.

```
<xs:complexType name="ConversationType">
  <xs:sequence>
    <xs:element name="ConversationId"
      type="t:ItemIdType"
      minOccurs="0"
    />
    <xs:element name="ConversationTopic"
      type="xs:string"
      minOccurs="0"
    />
    <xs:element name="UniqueRecipients"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="GlobalUniqueRecipients"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="UniqueUnreadSenders"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="GlobalUniqueUnreadSenders"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="UniqueSenders"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="GlobalUniqueSenders"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="LastDeliveryTime"
      type="xs:dateTime"
      minOccurs="0"
    />
    <xs:element name="GlobalLastDeliveryTime"
      type="xs:dateTime"
      minOccurs="0"
    />
    <xs:element name="Categories"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="GlobalCategories"
      type="t:ArrayOfStringsType"
      minOccurs="0"
    />
    <xs:element name="FlagStatus"
      type="t:FlagStatusType"
      minOccurs="0"
    />
    <xs:element name="GlobalFlagStatus"
      type="t:FlagStatusType"
      minOccurs="0"
    />
  </xs:sequence>
</xs:complexType>
```

```
</>
<xs:element name="HasAttachments"
  type="xs:boolean"
  minOccurs="0"
/>
<xs:element name="GlobalHasAttachments"
  type="xs:boolean"
  minOccurs="0"
/>
<xs:element name="MessageCount"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="GlobalMessageCount"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="UnreadCount"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="GlobalUnreadCount"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="Size"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="GlobalSize"
  type="xs:int"
  minOccurs="0"
/>
<xs:element name="ItemClasses"
  type="t:ArrayOfItemClassType"
  minOccurs="0"
/>
<xs:element name="GlobalItemClasses"
  type="t:ArrayOfItemClassType"
  minOccurs="0"
/>
<xs:element name="Importance"
  type="t:ImportanceChoicesType"
  minOccurs="0"
/>
<xs:element name="GlobalImportance"
  type="t:ImportanceChoicesType"
  minOccurs="0"
/>
<xs:element name="ItemIds"
  type="t:NonEmptyArrayOfBaseItemIdsType"
  minOccurs="0"
/>
<xs:element name="GlobalItemIds"
  type="t:NonEmptyArrayOfBaseItemIdsType"
  minOccurs="0"
/>
<xs:element name="LastModifiedTime" type="xs:dateTime" minOccurs="0" />
<xs:element name="InstanceKey" type="xs:base64Binary" minOccurs="0"/>
```



```

<xs:element name="Preview" type="xs:string" minOccurs="0" />
<xs:element name="InferredImportance" type="t:InferredImportanceType" minOccurs="0" />
<xs:element name="GlobalInferredImportance" type="t:InferredImportanceType" minOccurs="0"
/>
<xs:element name="MailboxScope" type="t:MailboxSearchLocationType" minOccurs="0" />
</xs:sequence>
</xs:complexType>

```

The following table lists and describes the child elements of the **ConversationType** complex type.

Element name	Type	Description
<b>ConversationId</b>	<b>t:ItemIdType</b> ( <a href="#">[MS-OXWSCORE]</a> section 2.2.4.15)	Specifies the conversation identifier.
<b>ConversationTopic</b>	<b>xs:string</b> <a href="#">[XMLSCHEMA2]</a>	Specifies the conversation topic.
<b>UniqueRecipients</b>	<b>t:ArrayOfStringsType</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.3.11)	Specifies a list of all the people who have received messages in this conversation in the current folder.
<b>GlobalUniqueRecipients</b>	<b>t:ArrayOfStringsType</b>	Specifies a list of all the people who have received messages in this conversation across all folders in the mailbox.
<b>UniqueUnreadSenders</b>	<b>t:ArrayOfStringsType</b>	Specifies a list of all the people who have sent messages that are currently unread in this conversation in the specified folder.
<b>GlobalUniqueUnreadSenders</b>	<b>t:ArrayOfStringsType</b>	Specifies a list of all the people who have sent messages that are currently unread in this conversation across all folders in a mailbox.
<b>UniqueSenders</b>	<b>t:ArrayOfStringsType</b>	Specifies a list of all the senders of conversation items in the specified folder.
<b>GlobalUniqueSenders</b>	<b>t:ArrayOfStringsType</b>	Specifies a list of all the senders of conversation items in a mailbox.
<b>LastDeliveryTime</b>	<b>xs:dateTime</b> <a href="#">[XMLSCHEMA2]</a>	Specifies the delivery time of the last message received in this conversation in the

Element name	Type	Description
		specified folder.
<b>GlobalLastDeliveryTime</b>	<b>xs:dateTime</b>	Specifies the delivery time of the last message received in this conversation across all folders in a mailbox.
<b>Categories</b>	<b>t:ArrayOfStringsType</b>	Specifies the category list for conversation items in the folder that's currently open.
<b>GlobalCategories</b>	<b>t:ArrayOfStringsType</b>	Specifies the category list for all conversation items in a mailbox.
<b>FlagStatus</b>	<a href="#">t:FlagStatusType</a> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the aggregated flag status for conversation items in the folder that's currently open.
<b>GlobalFlagStatus</b>	<b>t:FlagStatusType</b>	Specifies the aggregated flag status for all conversation items in mailbox.
<b>HasAttachments</b>	<b>xs:boolean</b> <a href="#">[XMLSCHEMA2]</a>	Specifies a value that indicates whether at least one conversation item in the folder that's currently open has an attachment.
<b>GlobalHasAttachments</b>	<b>xs:boolean</b>	Specifies a value that indicates whether at least one conversation item in a mailbox has an attachment.
<b>MessageCount</b>	<b>xs:int</b> <a href="#">[XMLSCHEMA2]</a>	Specifies the total number of conversation items in the folder that's currently open.
<b>GlobalMessageCount</b>	<b>xs:int</b>	Specifies the total number of conversation items in a mailbox.
<b>UnreadCount</b>	<b>xs:int</b>	Specifies a count of all the unread conversation items in the folder that's currently open.
<b>GlobalUnreadCount</b>	<b>xs:int</b>	Specifies a count of all the unread conversation items in a mailbox.

Element name	Type	Description
<b>Size</b>	<b>xs:int</b>	Specifies the size of the conversation calculated from the size of all conversation items in the folder that's currently open.
<b>GlobalSize</b>	<b>xs:int</b>	Specifies the size of the conversation calculated from the size of all conversation items in a mailbox.
<b>ItemClasses</b>	<a href="#">t:ArrayOfItemClassType</a> (section <a href="#">3.1.4.1.3.2</a> )	Specifies a list of item classes that represents all the item classes of the conversation items in the folder that's currently open.
<b>GlobalItemClasses</b>	<b>t:ArrayOfItemClassType</b>	Specifies a list of item classes that represents all the item classes of the conversation items in a mailbox.
<b>Importance</b>	<b>t:ImportanceChoicesType</b> ( <a href="#">[MS-OXWSCORE]</a> section 2.2.5.2)	Specifies the aggregated importance for all conversation items in the folder that's currently open.
<b>GlobalImportance</b>	<b>t:ImportanceChoicesType</b>	Specifies the aggregated importance for all conversation items in mailbox.
<b>ItemIds</b>	<b>t:NonEmptyArrayOfBaseItemIdsType</b> ( <a href="#">[MS-OXWSCORE]</a> section 2.2.4.9)	Specifies the collection of item identifiers for all conversation items in the folder that's currently open.
<b>GlobalItemIds</b>	<b>t:NonEmptyArrayOfBaseItemIdsType</b>	Specifies the collection of item identifiers for all conversation items in mailbox.
<b>LastModifiedTime</b>	<b>xs:dateTime</b>	<a href="#">&lt;2&gt;</a>
<b>InstanceKey</b>	<b>xs:base64Binary</b>	<a href="#">&lt;3&gt;</a>
<b>Preview</b>	<b>xs:string</b>	<a href="#">&lt;4&gt;</a>
<b>InferredImportance</b>	<b>t:InferredImportanceType</b>	<a href="#">&lt;5&gt;</a>
<b>GlobalInferredImportance</b>	<b>t:InferredImportanceType</b>	<a href="#">&lt;6&gt;</a>
<b>MailboxScope</b>	<b>t:MailboxSearchLocationType</b>	<a href="#">&lt;7&gt;</a>

### 3.1.4.1.3.5 m:FindConversationType Complex Type

**Note** Some of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure. For information about specific differences between versions, see the behavior notes that are provided in the Product Behavior appendix.

The **FindConversationType** complex type specifies the search options to use when searching for conversations. The **FindConversationType** complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.15.

```
<xs:complexType name="FindConversationType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:choice minOccurs="0">
          <xs:element name="IndexedPageItemView"
            type="t:IndexedPageViewType"
          />
          <xs:element name="SeekToConditionPageItemView"
            type="t:SeekToConditionPageViewType"
          />
        </xs:choice>
        <xs:element name="SortOrder"
          type="t:NonEmptyArrayOfFieldOrdersType"
          minOccurs="0"
        />
        <xs:element name="ParentFolderId"
          type="t:TargetFolderIdType"
          minOccurs="1"
        />
        <xs:element name="MailboxScope"
          type="t:MailboxSearchLocationType"
          minOccurs="0"
          maxOccurs="1"
        />
        <xs:element name="QueryString"
          type="m:QueryStringType"
          minOccurs="0"
          maxOccurs="1"
        />
        <xs:element name="ConversationShape"
          type="t:ConversationResponseShapeType"
          minOccurs="0"
          maxOccurs="1"
        />
      </xs:sequence>
      <xs:attribute name="Traversal"
        type="t:ConversationQueryTraversalType"
        use="optional"
      />
      <xs:attribute name="ViewFilter"
        type="t:ViewFilterType"
        use="optional"
      />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

</xs:complexType>

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

Element name	Type	Description
<b>IndexedPageItemView</b>	<b>t:IndexedPageViewType</b> ( <a href="#">[MS-OXWSSRCH]</a> section 2.2.4.14)	Specifies how conversation search results are returned in a response. This element <b>MUST</b> be present.
<b>SeekToConditionPageItemView</b>	<b>T:SeekToConditionPageViewType</b>	
<b>SortOrder</b>	<b>t:NonEmptyArrayOfFieldOrdersType</b> ( <a href="#">[MS-OXWSSRCH]</a> section 3.1.4.2.3.8)	Specifies the property and sort order direction that is used to sort conversations in a response.
<b>ParentFolderId</b>	<b>t:TargetFolderIdType</b> ( <a href="#">[MS-OXWSFOLD]</a> section 2.2.4.14)	Specifies the folder that is searched for conversations. This element <b>MUST</b> be present.
<b>MailboxScope</b>	<b>t:MailboxSearchLocationType</b>	
<b>QueryString</b>	<b>m:QueryStringType</b>	
<b>ConversationShape</b>	<b>t:ConversationResponseShapeType</b>	
<b>Traversal</b>	<b>t:ConversationQueryTraversalType</b>	
<b>ViewFilter</b>	<b>t:ViewFilterType</b>	

### 3.1.4.1.3.6 m:FindConversationResponseMessageType Complex Type

**Note** Some of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure. For information about specific differences between versions, see the behavior notes that are provided in the Product Behavior appendix.

The **FindConversationResponseMessageType** complex type specifies the results of an attempt to find conversations in a particular folder. The **FindConversationResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.57.

```
<xs:complexType name="FindConversationResponseMessageType">
  <xs:complexContent>
    <xs:extension
      base="m:ResponseMessageType"
    >
      <xs:sequence>
        <xs:element name="Conversations"
          type="t:ArrayOfConversationsType"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

```

        minOccurs="0"
      />
    <xs:element name="HighlightTerms"
      type="t:ArrayOfHighlightTermsType"
      minOccurs="0"
    />
    <xs:element name="TotalConversationsInView"
      type="xs:int"
      minOccurs="0"
    />
    <xs:element name="IndexedOffset"
      type="xs:int"
      minOccurs="0"
    />
  </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

The following table lists and describes the child elements of the **FindConversationResponseMessageType** complex type.

Element name	Type	Description
<b>Conversations</b>	<a href="#">t:ArrayOfConversationsType</a> (section <a href="#">3.1.4.1.3.1</a> )	Specifies an array of conversations that is returned in a response. This element <b>MUST</b> be present.
<b>HighlightTerms</b>	<b>t:ArrayOfConversationsType</b>	
<b>TotalConversationsInView</b>	<b>xs:int</b>	
<b>IndexedOffset</b>	<b>xs:int</b>	

### 3.1.4.1.4 Simple Types

The following table lists the XML schema simple definitions that are specific to the **FindConversation** operation.

Simple type name	Definition
<b>FlagStatusType</b> (section <a href="#">3.1.4.1.4.2</a> )	Specifies the flag status for conversation items.

#### 3.1.4.1.4.1 t:ConversationQueryTraversalType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationQueryTraversalType** simple type specifies whether a query of conversation items is shallow or deep. [<8>](#)

```

<xs:simpleType name="ConversationQueryTraversalType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Shallow" />
  </xs:restriction>
</xs:simpleType>

```

```

    <xs:enumeration value="Deep" />
  </xs:restriction>
</xs:simpleType>

```

The following table lists and describes the enumeration values that are defined by the ConversationQueryTraversalType simple type.

Value name	Description
Shallow	Specifies a shallow query.
Deep	Specifies a deep query.

#### 3.1.4.1.4.2 t:FlagStatusType Simple Type

The **FlagStatusType** simple type specifies the flag status for conversation items.

```

<xs:simpleType name="FlagStatusType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="NotFlagged"
    />
    <xs:enumeration
      value="Flagged"
    />
    <xs:enumeration
      value="Complete"
    />
  </xs:restriction>
</xs:simpleType>

```

The following table lists and describes the enumeration values that are defined by the **FlagStatusType** simple type.

Value name	Description
NotFlagged	This value sets the flag status to-not flagged.
Flagged	This value sets the flag status to flagged.
Complete	This value sets the flag status to complete.

#### 3.1.4.1.4.3 t:ViewFilterType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ViewFilterType** simple type specifies a filter for conversation items returned in a response. [<9>](#)

```

<xs:simpleType name="ViewFilterType">

```

```

<xs:annotation>
  <xs:documentation>Types of view filters for finding
  items/conversations</xs:documentation>
</xs:annotation>
<xs:restriction base="xs:string">
  <xs:enumeration value="All" />
  <xs:enumeration value="Flagged" />
  <xs:enumeration value="HasAttachment" />
  <xs:enumeration value="ToOrCcMe" />
  <xs:enumeration value="Unread" />
  <xs:enumeration value="TaskActive" />
  <xs:enumeration value="TaskOverdue" />
  <xs:enumeration value="TaskCompleted" />
</xs:restriction>
</xs:simpleType>

```

The following table lists and describes the enumeration values that are defined by the **ViewFilterType** simple type.

Value name	Description
<b>All</b>	Specifies that no filter is applied
<b>Flagged</b>	Specifies a filter for all flagged conversation items.
<b>HasAttachment</b>	Specifies a filter for all conversation items with attachments.
<b>ToOrCcMe</b>	Specifies a filter for all conversation items with the receiver specified on the To and Cc recipient list.
<b>Unread</b>	Specifies a filter for all unread conversation items.
<b>TaskActive</b>	
<b>TaskOverdue</b>	
<b>TaskCompleted</b>	

### 3.1.4.2 GetConversationItems

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItems** operation specifies the WSDL messages that are used to request and return the contents of a conversation in a mailbox. [<10>](#)

#### 3.1.4.2.1 Messages

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The following table lists and describes the set of the WSDL message definitions that are specific to the **GetConversationItems** operation.



Message name	Description
<b>GetConversationItemsSoapIn</b>	Specifies the SOAP message that represents a request for the contents of a conversation.
<b>GetConversationItemsSoapOut</b>	Specifies the SOAP message that contains the contents of a conversation.

### 3.1.4.2.1.1 GetConversationItemsSoapIn Message

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsSoapIn** WSDL message specifies the SOAP message that represents a request to return the contents of a conversation.

```
<wsdl:message name="GetConversationItemsSoapIn">
  <wsdl:part name="request" element="tns:GetConversationItems" />
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion" />
</wsdl:message>
```

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

The parts of the **GetConversationItemsSoapIn** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>Request</b>	<b>tns:GetConversationItems</b>	Specifies the SOAP body of the request to return the contents of a conversation. This part is required.
<b>Impersonation</b>	<b>t:ExchangeImpersonation</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.3)	Specifies a SOAP header that identifies the user whom the client application is impersonating. This part is optional.
<b>RequestVersion</b>	<b>t:RequestServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.9)	Specifies a SOAP header that identifies the schema version for the <b>GetConversationItems</b> operation request.

### 3.1.4.2.1.2 GetConversationItemsSoapOut Message

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsSoapOut** WSDL message specifies the server response SOAP message that contains the contents of a conversation.

```
<wsdl:message name="GetConversationItemsSoapOut">
  <wsdl:part name="GetConversationItemsResult" element="tns:GetConversationItemsResponse" />
</wsdl:message>
```

```
<wsdl:part name="ServerVersion" element="t:ServerVersionInfo" />
</wsdl:message>
```

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

The parts of the **GetConversationItemsSoapOut** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>GetConversationItemsResult</b>	<b>tns:GetConversationItemsResponse</b>	Specifies the SOAP body of the response to a <b>GetConversationItems</b> operation request.
<b>ServerVersion</b>	<b>ServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.10)	Specifies the SOAP header that identifies the server version for the response.

### 3.1.4.2.2 Elements

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The following table lists and describes the XML schema element definitions that are specific to the **GetConversationItems** operation.

Element name	Description
<b>GetConversationItems</b>	Specifies a request to return the contents of a conversation in a mailbox.
<b>GetConversationItemsResult</b>	Specifies a response that contains the results of an attempt to return the contents of a conversation in a mailbox.

#### 3.1.4.2.2.1 GetConversationItems Element

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItems** element specifies a request to return the contents of a conversation in a mailbox.

```
<xs:element name="GetConversationItems"
type="m:GetConversationItemsType"
/>
```

#### 3.1.4.2.2.2 GetConversationItemsResponse Element

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsResponse** element specifies a response that contains the results of an attempt to return the contents of a conversation in a mailbox.

```
<xs:element name="GetConversationItemsResponse"
type="m:GetConversationItemsResponseType"
/>
```

### 3.1.4.2.3 Complex Types

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The following table lists and describes the XML schema complex type definitions that are specific to the **GetConversationItems** operation.

Complex type name	Description
<b>m:GetConversationItemsType</b>	
<b>m:GetConversationItemsResponseMessageType</b>	
<b>m:GetConversationItemsResponseType</b>	

#### 3.1.4.2.3.1 t:ArrayOfConversationNodesType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ArrayOfConversationNodesType** complex type specifies an array of conversation nodes. [<11>](#)

```
<xs:complexType name="ArrayOfConversationNodesType">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element name="ConversationNode" type="t:ConversationNodeType"/>
  </xs:choice>
</xs:complexType>
```

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

Element name	Type	Description
<b>ConversationNode</b>	t:ConversationNodeType	Specifies a single conversation node.

#### 3.1.4.2.3.2 t:ArrayOfConversationRequestsType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ArrayOfConversationRequestsType** complex type specifies one or more conversations to be returned in a response. [<12>](#)

```
<xs:complexType name="ArrayOfConversationRequestsType">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
```

```

    <xs:element name="Conversation" type="t:ConversationRequestType"/>
  </xs:choice>
</xs:complexType>

```

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

Element name	Type	Description
<b>Conversation</b>	<b>t:ConversationRequestType</b>	Specifies a conversation to return in a response.

### 3.1.4.2.3.3 t:ConversationNodeType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationNodeType** complex type specifies a node of items in a conversation. [<13>](#)

```

<xs:complexType name="ConversationNodeType">
  <xs:sequence>
    <xs:element name="ConversationIndex" type="xs:string" minOccurs="1" maxOccurs="1"/>
    <xs:element name="ParentConversationIndex" type="xs:string" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="Items" type="t:NonEmptyArrayOfAllItemsType" minOccurs="0"
maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>

```

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

Element name	Type	Description
<b>ConversationIndex</b>	<b>xs:string</b>	Specifies the node conversation index.
<b>ParentConversationIndex</b>	<b>xs:string</b>	Specifies the parent node conversation index.
<b>Items</b>	<b>t:NonEmptyArrayOfAllItemsType</b>	Specifies all the items in the conversation node.

### 3.1.4.2.3.4 t:ConversationResponseType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationResponseType** complex type specifies a conversation that is returned in a response. [<14>](#)

```

<xs:complexType name="ConversationResponseType">
  <xs:sequence>
    <xs:element name="ConversationId" type="t:ItemIdType" minOccurs="1" maxOccurs="1"/>
    <xs:element name="SyncState" type="xs:base64Binary" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>

```

```

        <xs:element name="ConversationNodes" type="t:ArrayOfConversationNodesType"
minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>

```

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

Element name	Type	Description
<b>ConversationId</b>	<b>t:ItemIdType</b>	Specifies the conversation identifier.
<b>SyncState</b>	<b>xs:base64Binary</b>	Specifies the conversation synchronization state.
<b>ConversationNodes</b>	<b>t:ArrayOfConversationNodesType</b>	Specifies the conversation nodes in the conversation.

### 3.1.4.2.3.5 m:GetConversationItemsType Complex Type

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsType** complex type specifies the request to return the contents of a conversation. The **GetConversationItemsType** complex type extends the **ResponseMessageType**.

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

```
<xs:complexContent>
```

```
<xs:extension
```

```
base="m:BaseRequestType"
```

```
>
```

```
<xs:sequence>
```

```
<xs:element name="ItemShape"
```

```
type="t:ItemResponseShapeType"
```

```
minOccurs="1"
```

```
maxOccurs="1"
```

```
/>
```

```
<xs:element name="FoldersToIgnore"
```

```
type="t:NonEmptyArrayOfBaseFolderIdsType"
```

```
minOccurs="0"
```

```
maxOccurs="1"
```

```
/>
```

```

<xs:element name="MaxItemsToReturn"
type="xs:int"
minOccurs="0"
maxOccurs="1"
/>
<xs:element name="SortOrder"
type="t:ConversationNodeSortOrder"
minOccurs="0"
maxOccurs="1"
/>
<xs:element name="MailboxScope"
type="t:MailboxSearchLocationType"
minOccurs="0"
maxOccurs="1"
/>
<xs:element name="Conversations"
type="t:ArrayOfConversationRequestsType"
minOccurs="1"
/>
</xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

The following table lists the child elements of the **GetConversationItemsType** complex type

Element name	Type	Description
<b>ItemShape</b>	<b>t:ItemResponseShapeType</b>	
<b>FoldersToIgnore</b>	<b>t:NonEmptyArrayOfBaseFolderIdsType</b>	
<b>MaxItemsToReturn</b>	<b>xs:int</b>	
<b>SortOrder</b>	<b>t:ConversationNodeSortOrder</b>	
<b>MailboxScope</b>	<b>t:MailboxSearchLocationType</b>	

Element name	Type	Description
Conversations	t:ArrayOfConversationRequestsType	

### 3.1.4.2.3.6 GetConversationItemsResponseMessageType Complex Type

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsResponseMessageType** complex type specifies the results of an attempt to return the contents of a conversation. The **GetConversationItemsResponseMessageType** complex type extends the **ResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.57.

```
<xs:complexType name="GetConversationItemsResponseMessageType">
  <xs:complexContent>
    <xs:extension
      base="m:ResponseMessageType"
      >
      <xs:sequence>
        <xs:element name="Conversation"
          type="t:ConversationResponseType"
          minOccurs="0"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
Conversations	<a href="#">t:ArrayOfConversationsType</a> (section <a href="#">3.1.4.1.3.1</a> )	Specifies an array of conversations that is returned in a response. This element MUST be present.

### 3.1.4.2.3.7 GetConversationItemsResponseType Complex Type

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **GetConversationItemsResponseType** complex type specifies... The **GetConversationItemsResponseType** complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.15.

```
<xs:complexType name="GetConversationItemsResponseType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
    />
  </xs:complexContent>
</xs:complexType>
```

### 3.1.4.2.3.8 t:ConversationRequestType

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationRequestType** complex type specifies a conversation to return in a response. [<15>](#)

```
<xs:complexType name="ConversationRequestType">
  <xs:sequence>
    <xs:element name="ConversationId" type="t:ItemIdType" minOccurs="1" maxOccurs="1"/>
    <xs:element name="SyncState" type="xs:base64Binary" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
```

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

Element name	Type	Description
<b>ConversationId</b>	<b>t:ItemIdType</b>	Specifies the conversation identifier.
<b>SyncState</b>	<b>xs:base64Binary</b>	Specifies the conversation synchronization state.

### 3.1.4.2.4 Simple Types

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The following table lists and describes the XML schema simple type definitions that are specific to the **GetConversationItems** operation

Simple type name	Description
<b>t: ConversationNodeSortOrder</b>	Specifies how conversation nodes are ordered in the response.



### 3.1.4.2.4.1 t:ConversationNodeSortOrder

**Note** All of the information in this section is subject to change because it applies to a preliminary implementation of the protocol or structure.

The **ConversationNodeSortOrder** simple type specifies how conversation nodes are ordered in the response. <16>

```
<xs:simpleType name="ConversationNodeSortOrder">
  <xs:restriction base="xs:string">
    <xs:enumeration value="TreeOrderAscending"/>
    <xs:enumeration value="TreeOrderDescending"/>
    <xs:enumeration value="DateOrderAscending"/>
    <xs:enumeration value="DateOrderDescending"/>
  </xs:restriction>
</xs:simpleType>
```

The following table lists the values that are defined by the **ConversationNodeSortOrder** simple type.

Value name	Description
<b>TreeOrderAscending</b>	Specifies that the conversation node sort order is ascending based on the position in the node tree.
<b>TreeOrderDescending</b>	Specifies that the conversation node sort order is descending based on the position in the node tree.
<b>DateOrderAscending</b>	Specifies that the conversation node sort order is ascending based on the last date in the node tree.
<b>DateOrderDescending</b>	Specifies that the conversation node sort order is descending based on the last date in the node tree.

### 3.1.4.3 ApplyConversationAction

The **ApplyConversationAction** operation specifies the WSDL message that is used to apply actions to conversations in a mailbox.

The following is the WSDL port type definition of this operation.

```
<wsdl:operation name="ApplyConversationAction">
  <wsdl:input message="tns:ApplyConversationActionSoapIn"/>
  <wsdl:output message="tns:ApplyConversationActionSoapOut"/>
</wsdl:operation>
```

The following is the WSDL binding specification of this operation.

```
<wsdl:operation name="ApplyConversationAction">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ApplyConversationAction" />
  <wsdl:input>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
</wsdl:operation>
```

```

    <soap:header message="tns:ApplyConversationActionSoapIn" part="RequestVersion"
    use="literal" />
    <soap:header message="tns:ApplyConversationActionSoapIn" part="Impersonation"
    use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="ApplyConversationActionResult" use="literal" />
    <soap:header message="tns:ApplyConversationActionSoapOut" part="ServerVersion"
    use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

### 3.1.4.3.1 Messages

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

Message name	Description
<b>ApplyConversationActionSoapIn</b> (section <a href="#">3.1.4.3.1.1</a> )	Specifies the SOAP message that represents a request to apply actions to items in a specified conversation.
<b>ApplyConversationActionSoapOut</b> (section <a href="#">3.1.4.3.1.2</a> )	Specifies the SOAP message that represents a response to a request to apply actions to items in a specified conversation.

#### 3.1.4.3.1.1 tns:ApplyConversationActionSoapIn Message

The **ApplyConversationActionSoapIn** WSDL message specifies the SOAP message that represents a request to apply actions to items in a specified conversation.

The following is the WSDL message specification of the **ApplyConversationActionSoapIn** message.

```

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

```

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

The parts of the **ApplyConversationActionSoapIn** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>request</b>	<b>ApplyConversationAction</b> (section <a href="#">3.1.4.3.2.1</a> )	Specifies the SOAP body of the request to apply conversation actions. This part is required.
<b>Impersonation</b>	<b>ExchangeImpersonation</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.3)	Specifies a SOAP header that identifies the user whom the client application is impersonating. This part is optional.

Part name	Element/type	Description
<b>RequestVersion</b>	<b>RequestServerVersion</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.9)	Specifies a SOAP header that identifies the schema version for the <b>ApplyConversationAction</b> operation request.

### 3.1.4.3.1.2 tns:ApplyConversationActionSoapOut Message

The **ApplyConversationActionSoapOut** WSDL message specifies the SOAP message that represents a response to a request to apply actions to items in a specified conversation.

```
<wsdl:message name="ApplyConversationActionSoapOut">
  <wsdl:part name="ApplyConversationActionResult"
    element="tns:ApplyConversationActionResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

The parts of the **ApplyConversationActionSoapOut** WSDL message are listed and described in the following table.

Part name	Element/type	Description
<b>ApplyConversationActionResult</b>	<b>ApplyConversationActionResponse</b> (section <a href="#">3.1.4.3.2.2</a> )	Specifies the SOAP body of the response to a <b>ApplyConversationAction</b> operation request.
<b>ServerVersion</b>	<b>ServerVersionInfo</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.4.10)	Specifies the SOAP header that identifies the server version for the response.

### 3.1.4.3.2 Elements

The following table lists the XML schema element definitions that are specific to the **ApplyConversationAction** operation.

Element name	Description
<b>ApplyConversationAction</b> (section <a href="#">3.1.4.3.2.1</a> )	Specifies a request to apply actions to a conversation in a mailbox.
<b>ApplyConversationActionResponse</b> (section <a href="#">3.1.4.3.2.2</a> )	Specifies a response that contains the results of an attempt to apply conversation actions to a conversation in a mailbox.

#### 3.1.4.3.2.1 ApplyConversationAction Element

The **ApplyConversationAction** element specifies a request to apply actions to a conversation in a mailbox.

```
<xs:element name="ApplyConversationAction"
```

```

    type="m:ApplyConversationActionType"
  />

```

### 3.1.4.3.2.2 ApplyConversationActionResponse Element

The **ApplyConversationActionResponse** element specifies a response that contains the results of an attempt to apply conversation actions to a conversation in a mailbox. This element **MUST** be present.

```

<xs:element name="ApplyConversationActionResponse"
  type="m:ApplyConversationActionResponseType"
 />

```

### 3.1.4.3.3 Complex Types

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

Complex type name	Description
<b>ApplyConversationActionResponseType</b> (section <a href="#">3.1.4.3.3.1</a> )	Specifies the contents of a response that contains the results of an attempt to apply conversation actions to a conversation in mailbox.
<b>ApplyConversationActionType</b> (section <a href="#">3.1.4.3.3.2</a> )	Specifies the contents of a request to apply actions to a conversation in a mailbox.
<b>ConversationActionType</b> (section <a href="#">3.1.4.3.3.3</a> )	Specifies a single action to be applied to a conversation.
<b>NonEmptyArrayOfApplyConversationActionType</b> (section <a href="#">3.1.4.3.3.4</a> )	Specifies an array of actions to be applied to one or more conversations.

#### 3.1.4.3.3.1 m:ApplyConversationActionResponseType Complex Type

The **ApplyConversationActionResponseType** complex type specifies the contents of a response that contains the results of an attempt to apply conversation actions to a conversation in a mailbox. The **ApplyConversationActionResponseType** complex type extends the **BaseResponseMessageType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.16.

```

<xs:complexType>
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
    />
  </xs:complexContent>
</xs:complexType>

```

### 3.1.4.3.3.2 m:ApplyConversationActionType Complex Type

The **ApplyConversationActionType** complex type specifies the contents of a request to apply actions to a conversation in a mailbox. The **ApplyConversationActionType** complex type extends the **BaseRequestType** complex type, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.3.15.

```
<xs:complexType name="ApplyConversationActionType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element name="ConversationActions"
          type="t:NonEmptyArrayOfApplyConversationActionType"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
<b>ConversationActions</b>	<a href="#">t:NonEmptyArrayOfApplyConversationActionType</a> (section <a href="#">3.1.4.3.3.4</a> )	Specifies a collection of conversations and the actions to apply to them. This element <b>MUST</b> be present.

### 3.1.4.3.3.3 ConversationActionType Complex Type

The **ConversationActionType** complex type specifies a single action to be applied to a conversation.

```
<xs:complexType name="ConversationActionType">
  <xs:sequence>
    <xs:element name="Action"
      type="t:ConversationActionTypeType"
      maxOccurs="1"
      minOccurs="1"
    />
    <xs:element name="ConversationId"
      type="t:ItemIdType"
      maxOccurs="1"
      minOccurs="1"
    />
    <xs:element name="ContextFolderId"
      type="t:TargetFolderIdType"
      maxOccurs="1"
      minOccurs="0"
    />
    <xs:element name="ConversationLastSyncTime"
      type="xs:dateTime"
      maxOccurs="1"
    />
  </xs:sequence>
</xs:complexType>
```

```

        minOccurs="0"
      />
    </xs:element name="ProcessRightAway"
      type="xs:boolean"
      maxOccurs="1"
      minOccurs="0"
    />
    </xs:element name="DestinationFolderId"
      type="t:TargetFolderIdType"
      maxOccurs="1"
      minOccurs="0"
    />
    </xs:element name="Categories"
      type="t:ArrayOfStringsType"
      maxOccurs="1"
      minOccurs="0"
    />
    </xs:element name="EnableAlwaysDelete"
      type="xs:boolean"
      maxOccurs="1"
      minOccurs="0"
    />
    </xs:element name="IsRead"
      type="xs:boolean"
      maxOccurs="1"
      minOccurs="0"
    />
    </xs:element name="DeleteType"
      type="t:DisposalType"
      maxOccurs="1"
      minOccurs="0"
    />
  </xs:sequence>
</xs:complexType>

```

The following table lists and describes the child elements of the **ConversationActionType** complex type.

Element name	Type	Description
<b>Action</b>	<b>t:ConversationActionTypeType</b> (section <a href="#">3.1.4.3.4.1</a> )	Specifies the action to perform on the conversation specified by the <b>ConversationId</b> element. This element <b>MUST</b> be present.
<b>ConversationId</b>	<b>t:ItemIdType</b> ([ <a href="#">MS-OXWSCORE</a> ] section 2.2.4.15)	Specifies the conversation identifier of the targeted conversation for applying an action. This element <b>MUST</b> be present.
<b>ContextFolderId</b>	t:TargetFolderIdType ([ <a href="#">MS-OXWSFOLD</a> ] section 2.2.4.14)	Specifies the folder that is targeted for actions that use folders. This element <b>MUST</b> be present when copying, deleting, moving, and setting the read state on conversation items in a target

Element name	Type	Description
		folder. This element MUST NOT be present when copying, deleting, moving, and setting the read state on all conversation items in a mailbox.
<b>ConversationLastSyncTime</b>	<b>xs:dateTime</b> ( <a href="#">[XMLSCHEMA2]</a> )	Specifies the date and time that a conversation was last synchronized. This element MUST be present when trying to delete all items in a conversation that were received up to the specified time. All items received after the specified time MUST NOT be deleted.
<b>ProcessRightAway</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> )	Specifies whether the response is sent as soon as the action starts processing on the server, or whether the response is sent after the action has completed. This element MUST be present for the response to be sent asynchronous to the requested action.
<b>DestinationFolderId</b>	<b>t:TargetFolderIdType</b> ( <a href="#">[MS-OXWSFOLD]</a> section 2.2.4.14)	Specifies the destination folder for copy and move actions. This element MUST be present when the <b>Action</b> element value is set to "AlwaysMove", "Move", or "Copy".
<b>Categories</b>	<b>t:ArrayOfStringsType</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.3.11)	Specifies the categories to set on items in a conversation. This element MUST be present when the <b>Action</b> element value is set to "AlwaysCategorize".
<b>EnableAlwaysDelete</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> )	Specifies a flag that enables deletion for all new items in a conversation. This element MUST be present when the <b>Action</b> element value is set to "AlwaysDelete".
<b>IsRead</b>	<b>xs:boolean</b> ( <a href="#">[XMLSCHEMA2]</a> )	Specifies a flag that enables setting the read state of items in a conversation. This element MUST be present when the <b>Action</b> element value is set to "SetReadState".
<b>DeleteType</b>	<b>t:DisposalType</b> ( <a href="#">[MS-OXWSCDATA]</a> section 2.2.2.9)	Specifies how items in a conversation are deleted. This element MUST be present when the <b>Action</b> element value is set to "AlwaysDelete" or "Delete".

### 3.1.4.3.3.4 t:NonEmptyArrayOfApplyConversationActionType Complex Type

The **NonEmptyArrayOfApplyConversationActionType** complex type specifies an array of actions to be applied to one or more conversations.

```
<xs:complexType name="NonEmptyArrayOfApplyConversationActionType">
  <xs:sequence>
    <xs:element name="ConversationAction"
      type="t:ConversationActionType"
      maxOccurs="unbounded"
    />
  </xs:sequence>
</xs:complexType>
```

The following table lists and describes the child elements of the **ConversationType** complex type.

Element name	Type	Description
<b>ConversationAction</b>	<a href="#">t:ConversationActionType</a> (section <a href="#">3.1.4.3.3.3</a> )	Specifies a single conversation action. At least one instance of this element <b>MUST</b> be present.

### 3.1.4.3.4 Simple Types

The following table lists the XML schema simple type definitions that are specific to the **ApplyConversationAction** operation.

Simple type name	Description
<b>ConversationActionTypeType</b> (section <a href="#">3.1.4.3.4.1</a> )	Specifies the action to apply to items in a conversation.

#### 3.1.4.3.4.1 t:ConversationActionTypeType Simple Type

The **ConversationActionTypeType** simple type specifies the action to apply to items in a conversation.

```
<xs:simpleType name="ConversationActionTypeType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="AlwaysCategorize"
    />
    <xs:enumeration
      value="AlwaysDelete"
    />
    <xs:enumeration
      value="AlwaysMove"
    />
    <xs:enumeration
      value="Delete"
    />
    <xs:enumeration
```



```

        value="Move"
      />
    <xs:enumeration
      value="Copy"
    />
    <xs:enumeration
      value="SetReadState"
    />
  </xs:restriction>
</xs:simpleType>

```

The following table lists and describes the enumeration values that are defined by the **ConversationActionType** simple type.

Value name	Description
<b>AlwaysCategorize</b>	Specifies that items in the conversation are always categorized.
<b>AlwaysDelete</b>	Specifies that items in the conversation are always deleted.
<b>AlwaysMove</b>	Specifies that items in the conversation are always moved.
<b>Delete</b>	Specifies that items in the conversation are to be deleted.
<b>Move</b>	Specifies that items in the conversation are to be moved.
<b>Copy</b>	Specifies that items in the conversation are to be copied.
<b>SetReadState</b>	Specifies that items in the conversation are to have the read state set.

### 3.1.5 Timer Events

None.

### 3.1.6 Other Local Events

None.

## 4 Protocol Examples

This section provides a simplified example of a request/response sequence for the **FindConversation** operation, as specified in section [3.1.4.1](#)

The following example shows a **FindConversation** request to return a single conversation from the default Inbox folder.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  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="Exchange2010_SP1" />
  </soap:Header>
  <soap:Body>
    <m:FindConversation>
      <m:IndexedPageItemView BasePoint="Beginning" MaxEntriesReturned="1" Offset="0"/>
      <m:ParentFolderId>
        <t:DistinguishedFolderId Id="inbox"/>
      </m:ParentFolderId>
    </m:FindConversation>
  </soap:Body>
</soap:Envelope>
```

The following example shows a **FindConversation** response to the request to return a single conversation from the default Inbox folder.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="139"
      MinorBuildNumber="0"
      Version="Exchange2010_SP1"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"/>
  </soap:Header>
  <soap:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <FindConversationResponse ResponseClass="Success"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <ResponseCode>NoError</ResponseCode>
      <Conversations>
        <t:Conversation xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
          <t:ConversationId
            Id="AAQkAGYzZjZmNjk5LTlYNTQtNDBjZS05OTk0LTM4OGQ5ZDk4NDE5ZQAQAGD7JNksE4zm4ATHm5DvYc="/>
          <t:ConversationTopic>Most fascinating</t:ConversationTopic>
          <t:UniqueRecipients>
            <t:String>User1@aujing-dom.extest.microsoft.com</t:String>
            <t:String>User2@aujing-dom.extest.microsoft.com</t:String>
          </t:UniqueRecipients>
        </t:Conversation>
      </Conversations>
    </FindConversationResponse>
  </soap:Body>
</soap:Envelope>
```

```

</t:UniqueRecipients>
<t:GlobalUniqueRecipients>
  <t:String>User1@aujing-dom.extest.microsoft.com</t:String>
  <t:String>User2@aujing-dom.extest.microsoft.com</t:String>
</t:GlobalUniqueRecipients>
<t:UniqueUnreadSenders>
  <t:String>Microsoft Outlook</t:String>
</t:UniqueUnreadSenders>
<t:GlobalUniqueUnreadSenders>
  <t:String>Microsoft Outlook</t:String>
</t:GlobalUniqueUnreadSenders>
<t:UniqueSenders>
  <t:String>Microsoft Outlook</t:String>
</t:UniqueSenders>
<t:GlobalUniqueSenders>
  <t:String>Microsoft Outlook</t:String>
  <t:String>UserOne</t:String>
</t:GlobalUniqueSenders>
<t>LastDeliveryTime>2010-04-03T23:15:49Z</t>LastDeliveryTime>
<t:GlobalLastDeliveryTime>2010-04-03T23:15:49Z</t:GlobalLastDeliveryTime>
<t:HasAttachments>>false</t:HasAttachments>
<t:GlobalHasAttachments>>false</t:GlobalHasAttachments>
<t:MessageCount>1</t:MessageCount>
<t:GlobalMessageCount>2</t:GlobalMessageCount>
<t:UnreadCount>1</t:UnreadCount>
<t:GlobalUnreadCount>1</t:GlobalUnreadCount>
<t:Size>6505</t:Size>
<t:GlobalSize>7814</t:GlobalSize>
<t:ItemClasses>
  <t:ItemClass>REPORT.IPM.Note.NDR</t:ItemClass>
</t:ItemClasses>
<t:GlobalItemClasses>
  <t:ItemClass>REPORT.IPM.Note.NDR</t:ItemClass>
  <t:ItemClass>IPM.Note</t:ItemClass>
</t:GlobalItemClasses>
<t:Importance>Normal</t:Importance>
<t:GlobalImportance>Normal</t:GlobalImportance>
<t:ItemIds>
  <t:ItemId Id="AAMkAGYzZjldkC+NAAAAY89GAAA=" ChangeKey="CQAAAA==" />
</t:ItemIds>
<t:GlobalItemIds>
  <t:ItemId Id="AAMkAGYzZjldkC+NAAAAY89GAAA=" ChangeKey="CQAAAA==" />
  <t:ItemId Id="AAMkAGYzZjldkC+NAAAAY9LrAAA=" ChangeKey="CQAAAA==" />
</t:GlobalItemIds>
</t:Conversation>
</Conversations>
</FindConversationResponse>
</soap:Body>
</soap:Envelope>

```

## **5 Security**

### **5.1 Security Considerations for Implementers**

None.

### **5.2 Index of Security Parameters**

None.

Preliminary

## 6 Appendix A: Full WSDL

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

File name	Description	Section
MS-OXWSCONV.wsdl	Contains the WSDL for the implementation of this protocol.	<a href="#">6</a>
MS-OXWSCONV-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	<a href="#">7.1</a>
MS-OXWSCONV-types.xsd	Contains the XML schema type definitions that are used in this protocol.	<a href="#">7.2</a>

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

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

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"

  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
  <wsdl:types>
    <xs:schema id="messages"
      elementFormDefault="qualified"
      version="Exchange2010_SP1"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"

      targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
      <xs:include schemaLocation="MS-OXWSCONV-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="FindConversation">
      <wsdl:input message="tns:FindConversationSoapIn"/>
      <wsdl:output message="tns:FindConversationSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="ApplyConversationAction">
      <wsdl:input message="tns:ApplyConversationActionSoapIn"/>
      <wsdl:output message="tns:ApplyConversationActionSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
    <wsdl:documentation>
      <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-i.org/schemas/conformanceClaim"/>
    </wsdl:documentation>
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="FindConversation">
      <soap:operation
        soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/FindConversation"/>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>
```

```

    <wsdl:input>
      <soap:body parts="request" use="literal"/>
      <soap:header message="tns:FindConversationSoapIn" part="RequestVersion"
use="literal"/>
      <soap:header message="tns:FindConversationSoapIn" part="Impersonation"
use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="FindConversationResult" use="literal"/>
      <soap:header message="tns:FindConversationSoapOut" part="ServerVersion"
use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="ApplyConversationAction">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ApplyConversationAct
ion"/>
    <wsdl:input>
      <soap:body parts="request" use="literal"/>
      <soap:header message="tns:ApplyConversationActionSoapIn" part="RequestVersion"
use="literal"/>
      <soap:header message="tns:ApplyConversationActionSoapIn" part="Impersonation"
use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="ApplyConversationActionResult" use="literal"/>
      <soap:header message="tns:ApplyConversationActionSoapOut" part="ServerVersion"
use="literal"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:message name="FindConversationSoapIn">
  <wsdl:part name="request" element="tns:FindConversation"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="FindConversationSoapOut">
  <wsdl:part name="FindConversationResult" element="tns:FindConversationResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="ApplyConversationActionSoapIn">
  <wsdl:part name="request" element="tns:ApplyConversationAction"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="ApplyConversationActionSoapOut">
  <wsdl:part name="ApplyConversationActionResult"
element="tns:ApplyConversationActionResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
</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
Messages schema	m:	<a href="#">7.1</a>
Types schema	t:	<a href="#">7.2</a>

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

### 7.1 Messages Schema

This section provides the contents of the messages schema and information about additional files that the messages schema file requires successful validation. The messages schema is referenced from the WSDL file as MS-OXWSCONV-messages.xsd. The following table lists additional files that have to be present in the folder that contains the messages schema.

File name	Defining specification
MS-OXWSCONV-types.xsd	<a href="#">7.2</a>
MS-OXWSCDATA-messages.xsd	<a href="#">[MS-OXWSCDATA]</a> section 7.1

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="messages"
  elementFormDefault="qualified"
  version="Exchange2010"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
    schemaLocation="MS-OXWSCONV-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:complexType name="FindConversationType">
    <xs:complexContent>
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="IndexedPageItemView" type="t:IndexedPageViewItemViewType"
            minOccurs="1"/>
          <xs:element name="SortOrder" type="t:NonEmptyArrayOfFieldOrdersType"
            minOccurs="0"/>
          <xs:element name="ParentFolderId" type="t:TargetFolderIdType" minOccurs="1"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="FindConversation" type="m:FindConversationType"/>
  <xs:complexType name="FindConversationResponseMessageType">
    <xs:complexContent>
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
```

```

        <xs:element name="Conversations" type="t:ArrayOfConversationsType"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="FindConversationResponse" type="m:FindConversationResponseMessageType"/>
<xs:complexType name="ApplyConversationActionType">
    <xs:complexContent>
        <xs:extension base="m:BaseRequestType">
            <xs:sequence>
                <xs:element name="ConversationActions"
type="t:NonEmptyArrayOfApplyConversationActionType"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ApplyConversationAction" type="m:ApplyConversationActionType"/>
<xs:complexType name="ApplyConversationActionResponseType">
    <xs:complexContent>
        <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ApplyConversationActionResponse"
type="m:ApplyConversationActionResponseType"/>
</xs:schema>

```

## 7.2 Types Schema

This section provides the contents of the types schema and information about additional files that the types schema file requires for successful validation. The types schema is referenced from the messages schema file as MS-OXWSCONV-types.xsd. The following table lists additional files that have to be present in the folder that contains the types schema file.

File name	Defining specification
MS-OXWSCDATA-types.xsd	<a href="#">[MS-OXWSCDATA]</a> section 7.2

```

<?xml version="1.0" encoding="utf-8"?>
<xs:schema id="types"
    elementFormDefault="qualified"
    version="Exchange2010"
    xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
    targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:include schemaLocation="MS-OXWSCDATA-types.xsd"/>
    <xs:complexType name="ArrayOfItemClassType">
        <xs:choice minOccurs="0" maxOccurs="unbounded">
            <xs:element name="ItemClass" type="t:ItemClassType"/>
        </xs:choice>
    </xs:complexType>
    <xs:simpleType name="FlagStatusType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="NotFlagged"/>
            <xs:enumeration value="Flagged"/>
            <xs:enumeration value="Complete"/>
        </xs:restriction>
    </xs:simpleType>

```



```

<xs:simpleType name="ConversationActionTypeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AlwaysCategorize"/>
    <xs:enumeration value="AlwaysDelete"/>
    <xs:enumeration value="AlwaysMove"/>
    <xs:enumeration value="Delete"/>
    <xs:enumeration value="Move"/>
    <xs:enumeration value="Copy"/>
    <xs:enumeration value="SetReadState"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="ConversationActionType">
  <xs:sequence>
    <xs:element name="Action" type="t:ConversationActionTypeType" minOccurs="1"
maxOccurs="1"/>
    <xs:element name="ConversationId" type="t:ItemIdType" minOccurs="1" maxOccurs="1"/>
    <xs:element name="ContextFolderId" type="t:TargetFolderIdType" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="ConversationLastSyncTime" type="xs:dateTime" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="ProcessRightAway" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="DestinationFolderId" type="t:TargetFolderIdType" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="Categories" type="t:ArrayOfStringsType" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="EnableAlwaysDelete" type="xs:boolean" minOccurs="0"
maxOccurs="1"/>
    <xs:element name="IsRead" type="xs:boolean" minOccurs="0" maxOccurs="1"/>
    <xs:element name="DeleteType" type="t:DisposalType" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="NonEmptyArrayOfApplyConversationActionType">
  <xs:sequence>
    <xs:element name="ConversationAction" type="t:ConversationActionType"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ConversationType">
  <xs:sequence>
    <xs:element name="ConversationId" type="t:ItemIdType" minOccurs="0"/>
    <xs:element name="ConversationTopic" type="xs:string" minOccurs="0"/>
    <xs:element name="UniqueRecipients" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="GlobalUniqueRecipients" type="t:ArrayOfStringsType"
minOccurs="0"/>
    <xs:element name="UniqueUnreadSenders" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="GlobalUniqueUnreadSenders" type="t:ArrayOfStringsType"
minOccurs="0"/>
    <xs:element name="UniqueSenders" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="GlobalUniqueSenders" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="LastDeliveryTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="GlobalLastDeliveryTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="Categories" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="GlobalCategories" type="t:ArrayOfStringsType" minOccurs="0"/>
    <xs:element name="FlagStatus" type="t:FlagStatusType" minOccurs="0"/>
    <xs:element name="GlobalFlagStatus" type="t:FlagStatusType" minOccurs="0"/>
    <xs:element name="HasAttachments" type="xs:boolean" minOccurs="0"/>
    <xs:element name="GlobalHasAttachments" type="xs:boolean" minOccurs="0"/>
    <xs:element name="MessageCount" type="xs:int" minOccurs="0"/>
    <xs:element name="GlobalMessageCount" type="xs:int" minOccurs="0"/>
    <xs:element name="UnreadCount" type="xs:int" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

```
<xs:element name="GlobalUnreadCount" type="xs:int" minOccurs="0"/>
<xs:element name="Size" type="xs:int" minOccurs="0"/>
<xs:element name="GlobalSize" type="xs:int" minOccurs="0"/>
<xs:element name="ItemClasses" type="t:ArrayOfItemClassType" minOccurs="0"/>
<xs:element name="GlobalItemClasses" type="t:ArrayOfItemClassType" minOccurs="0"/>
<xs:element name="Importance" type="t:ImportanceChoicesType" minOccurs="0"/>
<xs:element name="GlobalImportance" type="t:ImportanceChoicesType" minOccurs="0"/>
<xs:element name="ItemIds" type="t:NonEmptyArrayOfBaseItemIdsType" minOccurs="0"/>
<xs:element name="GlobalItemIds" type="t:NonEmptyArrayOfBaseItemIdsType"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfConversationsType">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element name="Conversation" type="t:ConversationType"/>
  </xs:choice>
</xs:complexType>
</xs:schema>
```

## 8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® Exchange Server 2010 Service Pack 1 (SP1)
- Microsoft® Exchange Server 15 Technical 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 3.1.4.1.3.3](#): Exchange 2010 does not use the **ConversationResponseShapeType** complex type.

<2> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **LastModifiedTime** element.

<3> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **InstanceKey** element.

<4> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **Preview** element.

<5> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **InferredImportance** element.

<6> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **GlobalInferredImportance** element.

<7> [Section 3.1.4.1.3.4](#): Exchange 2010 does not use the **MailboxScope** element.

<8> [Section 3.1.4.1.4.1](#): Exchange 2010 does not use the **ConversationQueryTraversalType** simple type. The **ConversationQueryTraversalType** simple type was introduced in Exchange 15 Technical Preview.

<9> [Section 3.1.4.1.4.3](#): Exchange 2010 does not use the **ViewFilterType** simple type. The **ViewFilterType** simple type was introduced in Exchange 15 Technical Preview.

<10> [Section 3.1.4.2](#): Exchange 2010 does not use the **GetConversation** operation.

<11> [Section 3.1.4.2.3.1](#): Exchange 2010 does not use the **ArrayOfConversationNodesType** complex type.

<12> [Section 3.1.4.2.3.2](#): Exchange 2010 does not use the **ArrayOfConversationRequestsType** complex type.

<13> [Section 3.1.4.2.3.3](#): Exchange 2010 does not use the **ConversationNodeType** complex type.

<14> [Section 3.1.4.2.3.4](#): Exchange 2010 does not use the **ConversationResponseType** complex type.

<15> [Section 3.1.4.2.3.8](#): Exchange 2010 does not use the **ConversationRequestType** complex type.

<16> [Section 3.1.4.2.4.1](#): Exchange 2010 does not use the **ConversationNodeSortOrder** simple type.

Preliminary

## 9 Change Tracking

This section identifies changes that were made to the [MS-OXWSCONV] protocol document between the October 2011 and January 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact [protocol@microsoft.com](mailto:protocol@microsoft.com).

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.1.3.3</a> <a href="#">t:ConversationResponseShapeType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.1.3.4</a> <a href="#">t:ConversationType Complex Type</a>	Added the LastModifiedTime, InstanceKey, Preview, InferredImportance, GlobalInferredImportance, and MailboxScope elements.	Y	New content added due to protocol revision.
<a href="#">3.1.4.1.3.5</a> <a href="#">m:FindConversationType Complex Type</a>	Added new elements.	Y	New content added due to protocol revision.
<a href="#">3.1.4.1.4.1</a> <a href="#">t:ConversationQueryTraversalType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.1.4.3</a> <a href="#">t:ViewFilterType</a>	Added section.	Y	New content added due to protocol revision.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
<a href="#">3.1.4.2 GetConversationItems</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.1 Messages</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.1.1 GetConversationItemsSoapIn Message</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.1.2 GetConversationItemsSoapOut Message</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.2 Elements</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.2.1 GetConversationItems Element</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.2.2 GetConversationItemsResponse Element</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3 Complex Types</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.1 t:ArrayOfConversationNodesType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.2 t:ArrayOfConversationRequestsType</a>	Added section.	Y	New content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			added due to protocol revision.
<a href="#">3.1.4.2.3.3</a> <a href="#">t:ConversationNodeType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.4</a> <a href="#">t:ConversationResponseType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.5</a> <a href="#">m:GetConversationItemsType Complex Type</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.6</a> <a href="#">GetConversationItemsResponseMessageType Complex Type</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.7</a> <a href="#">GetConversationItemsResponseType Complex Type</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.3.8</a> <a href="#">t:ConversationRequestType</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.4</a> <a href="#">Simple Types</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">3.1.4.2.4.1</a> <a href="#">t:ConversationNodeSortOrder</a>	Added section.	Y	New content added due to protocol revision.
<a href="#">8</a> <a href="#">Appendix C: Product Behavior</a>	Added Exchange 15 Technical Preview to the list of applicable product versions.	Y	Content updated.



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