

[MS-OXWSMSG]: Email Message Types Web Service Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
07/15/2009	1.0	Major	Initial Availability.
11/04/2009	2.0.0	Major	Updated and revised the technical content.
02/10/2010	3.0.0	Major	Updated and revised the technical content.
05/05/2010	3.1.0	Minor	Updated the technical content.
08/04/2010	4.0	Major	Significantly changed the technical content.
11/03/2010	5.0	Major	Significantly changed the technical content.
03/18/2011	6.0	Major	Significantly changed the technical content.
08/05/2011	6.1	Minor	Clarified the meaning of the technical content.
10/07/2011	6.1	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	7.0	Major	Significantly changed the technical content.
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1 Introduction

The Email Message Types Web Service Protocol is used to create, get, update, delete, move, copy, and send email messages in a mailbox.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in [\[RFC2119\]](#). Sections 1.5 and 1.9 are also normative but do not contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

delegate
delegate access
endpoint
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
Junk Email folder
mailbox
message store
Multipurpose Internet Mail Extensions (MIME)
SOAP
Uniform Resource Locator (URL)
web server
Web Services Description Language (WSDL)
WSDL message
WSDL operation
WSDL port type
XML
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 defined 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. We will assist you in finding the relevant information.

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

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

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

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

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

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

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

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

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

[XMLSCHEMA2] 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-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)".

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

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

1.3 Overview

The Email Message Types Web Service Protocol provides clients with the ability to create, get, update, delete, move, copy, and send email messages on the server. Clients create email messages by using the **CreateItem** operation, or they get the properties of an existing task item by using the **GetItem** operation. Email messages can also be sent, updated, deleted, moved, or copied on the server by using the **SendItem**, **UpdateItem**, **DeleteItem**, **MoveItem**, and **CopyItem** operations, respectively.

1.4 Relationship to Other Protocols

A client that implements this protocol can use the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [\[MS-OXWSADISC\]](#), or the Autodiscover Publishing and Lookup Protocol, as described in [\[MS-OXDSCLI\]](#), to identify the target **endpoint** (4) to use for each operation.

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

This protocol uses SOAP over **HTTP**, as described in [\[RFC2616\]](#), and SOAP over **HTTPS**, as described in [\[RFC2818\]](#), as shown in the following figure.

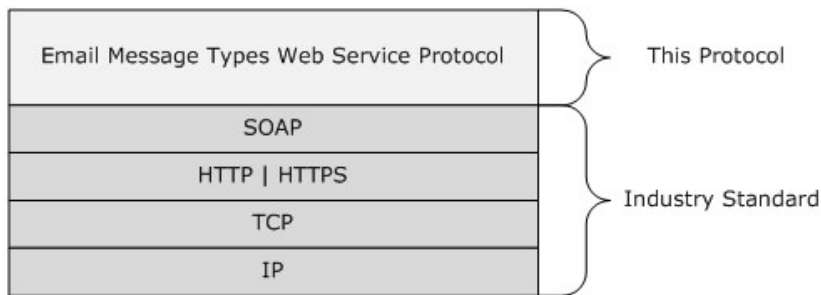


Figure 1: This protocol in relation to other protocols

This protocol uses the email message identifier returned by the Mailbox Search Web Service Protocol, as described in [\[MS-OXWSSRCH\]](#), to retrieve information from the **message store**.

This protocol uses the **CopyItem**, **CreateItem**, **DeleteItem**, **GetItem**, **MoveItem**, **SendItem**, and **UpdateItem** operations of the Core Items Web Service Protocol, as described in [\[MS-OXWSCORE\]](#), to manipulate an email message.

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

1.5 Prerequisites/Preconditions

The endpoint (4) **URL** that is returned by either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol, as specified by [\[MS-OXWSADISC\]](#), or the Autodiscover Publishing and Lookup Protocol, as specified by [\[MS-OXDSCLI\]](#), 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.

To access this protocol, all callers are authenticated. This protocol relies on the web server that hosts the application to perform authentication.

1.6 Applicability Statement

This protocol is applicable to environments that copy, create, delete, get, send, move, or update email messages by using Exchange Web Services.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses multiple transports with SOAP 1.1, as described in section [2.1](#).
- **Protocol Versions:** This protocol has only one **WSDL port type** version. The **Web Services Description Language (WSDL)** version of the request is identified by using the **t:RequestServerVersion** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.3.9, and the

version of the server responding to the request is identified by using the **t:ServerVersionInfo** element, as described in [\[MS-OXWSCDATA\]](#) section 2.2.3.10.

- **Security and Authentication Methods:** This protocol relies on the web server that is hosting it to perform authentication.
- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are described in section [3.1.4](#).
- **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

This protocol uses SOAP 1.1. For details, see [\[SOAP1.1\]](#).

This protocol relies on the web server that hosts the application to perform authentication. The protocol **MUST** support SOAP over HTTP, as specified in [\[RFC2616\]](#). The protocol **SHOULD** use secure communications via 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 specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and WSDL, as specified 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 namespaces prefix is implementation-specific and is not significant for interoperability.

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
t	http://schemas.microsoft.com/exchange/services/2006/types	

2.2.2 Messages

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

2.2.3 Elements

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

2.2.4 Complex Types

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

Complex type name	Description
MessageType	Represents a server email message in a user's mailbox .

2.2.4.1 t:MessageType Complex Type

The **MessageType** complex type represents a server email message in a mailbox. The **MessageType** complex type extends the **ItemType** complex type ([\[MS-OXWSCORE\]](#) section 2.2.4.23).

```

<xs:complexType name="MessageType">
  <xs:complexContent>
    <xs:extension
      base="t:ItemType"
    >
      <xs:sequence>
        <xs:element name="Sender"
          type="t:SingleRecipientType"
          minOccurs="0"
        />
        <xs:element name="ToRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
        />
        <xs:element name="CcRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
        />
        <xs:element name="BccRecipients"
          type="t:ArrayOfRecipientsType"
          minOccurs="0"
        />
        <xs:element name="IsReadReceiptRequested"
          type="xs:boolean"
          minOccurs="0"
        />
        <xs:element name="IsDeliveryReceiptRequested"
          type="xs:boolean"
          minOccurs="0"
        />
        <xs:element name="ConversationIndex"
          type="xs:base64Binary"
          minOccurs="0"
        />
        <xs:element name="ConversationTopic"
          type="xs:string"
          minOccurs="0"
        />
        <xs:element name="From"
          type="t:SingleRecipientType"
          minOccurs="0"
        />
        <xs:element name="InternetMessageId"
          type="xs:string"
          minOccurs="0"
        />
        <xs:element name="IsRead"

```

```

        type="xs:boolean"
        minOccurs="0"
      />
      <xs:element name="IsResponseRequested"
        type="xs:boolean"
        minOccurs="0"
      />
      <xs:element name="References"
        type="xs:string"
        minOccurs="0"
      />
      <xs:element name="ReplyTo"
        type="t:ArrayOfRecipientsType"
        minOccurs="0"
      />
      <xs:element name="ReceivedBy"
        type="t:SingleRecipientType"
        minOccurs="0"
      />
      <xs:element name="ReceivedRepresenting"
        type="t:SingleRecipientType"
        minOccurs="0"
      />
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>

```

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

Element name	Type	Description
Sender	t:SingleRecipientType ([MS-OXWSCDATA] section 2.2.4.60)	Specifies the sender of a message. This element is optional. This is a read/write element.
ToRecipients	t:ArrayOfRecipientsType ([MS-OXWSCDATA] section 2.2.4.9)	Specifies a collection of recipients of an email. This element is required for sending a message. This is a read/write element.
CcRecipients	t:ArrayOfRecipientsType	Specifies a collection of recipients that receive a carbon copy (Cc) of an email. This element is optional. This is a read/write element.
BccRecipients	t:ArrayOfRecipientsType	Specifies a collection of recipients that receive a blind carbon copy (Bcc) of an email. This element is optional. This is a read/write element.
IsReadReceiptRequested	xs:boolean ([XMLSCHEMA2])	Specifies a Boolean value that indicates whether the sender of a message requests a read receipt. This element is optional. This is a read/write element. A text value of "true" indicates that a read receipt is requested from the recipient of the

Element name	Type	Description
		message.
IsDeliveryReceiptRequested	xs:boolean	Specifies a Boolean value that indicates whether the sender of the message has requested a delivery receipt. This is a read/write element. A text value of "true" indicates that a delivery receipt has been requested from the recipient of the message.
ConversationIndex	xs:base64Binary ([XMLSCHEMA2])	Specifies the position of the message within a conversation. This element is optional. This element is read-only.
ConversationTopic	xs:string ([XMLSCHEMA2])	Specifies the subject of the conversation. This element is optional. This element is read-only.
From	t:SingleRecipientType	Specifies the addressee from whom the message was sent. This element is optional. This is a read/write element.
InternetMessageId	xs:string	Specifies the Internet message identifier for the message. This element is optional. This element is read-only.
IsRead	xs:boolean	Specifies a Boolean value that indicates whether the message has been read. This is a read/write element. The text value of "true" indicates that the message has been read.
IsResponseRequested	xs:boolean	Specifies a Boolean value that indicates whether a response to an email has been requested. This element is optional. This is a read/write element. A text value of "true" indicates that a response has been requested.
References	xs:string	Specifies the Usenet header that is used to correlate replies with their original message. This element is optional. This is a read/write element.
ReplyTo	t:ArrayOfRecipientsType	Specifies a collection of addresses to send replies to. This element is optional. This is a read/write element.
ReceivedBy	t:SingleRecipientType	Identifies the delegate in a delegate access scenario. This element is read-only.
ReceivedRepresenting	t:SingleRecipientType	Identifies the principal in a delegate access scenario. This element is read-only.

2.2.5 Simple Types

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

Simple type name	Description
MessageDispositionType	Specifies how a message item is handled after it is created or updated.

2.2.5.1 t:MessageDispositionType Simple Type

The **MessageDispositionType** simple type specifies how a message item is handled after it is created or updated.

```
<xs:simpleType name="MessageDispositionType">
  <xs:restriction
    base="xs:string"
  >
    <xs:enumeration
      value="SaveOnly"
    />
    <xs:enumeration
      value="SendOnly"
    />
    <xs:enumeration
      value="SendAndSaveCopy"
    />
  </xs:restriction>
</xs:simpleType>
```

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

Value	Meaning
SaveOnly	When used in the CreateItemType complex type ([MS-OXWSCORE] section 3.1.4.2.3.2), the email message item is saved in the folder that is specified by the TargetFolderIdType complex type ([MS-OXWSFOLD] section 2.2.4.14). Messages can be sent later by using the SendItem operation (section 3.1.4.6) on an ExchangeServiceBinding object. In this case, an item identifier is returned.
SendOnly	When used in the CreateItemType complex type, the email message item is sent but no copy is saved. In this case, an item identifier is not returned.
SendAndSaveCopy	When used in the CreateItemType complex type, the email message item is sent and a copy is saved in the TargetFolderIdType complex type. In this case, an item identifier is not returned.

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3 Protocol Details

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

3.1 ExchangeServicePortType Server Details

The Email Message Types Items Web Service Protocol defines a single port type with seven operations. The operations enable client implementations to get, create, delete, update, move, copy, and send messages in a user's mailbox.

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that specified in this document.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

Operation name	Description
CopyItem	Copies an email message on the server.
CreateItem	Creates email messages on the server.
DeleteItem	Deletes an email message from the server.
GetItem	Gets email messages from the server.
MoveItem	Moves an email message on the server.
SendItem	Sends an email message to the server.
UpdateItem	Updates an email message on the server.

3.1.4.1 CopyItem

The **CopyItem** operation copies email messages on the server.

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

```

<wsdl:operation name="CopyItem">
  <wsdl:input message="tns:CopyItemSoapIn" />
  <wsdl:output message="tns:CopyItemSoapOut" />
</wsdl:operation>

```

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

```

<wsdl:operation name="CopyItem">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CopyItem" />
  wsdl:input>
    <soap:header message="tns:CopyItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:CopyItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:CopyItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="CopyItemResult" use="literal" />
    <soap:header message="tns:CopyItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

The protocol client sends a **CopyItemSoapIn** request WSDL message, and the protocol server responds with a **CopyItemSoapOut** response WSDL message.

If the **CopyItem** WSDL operation request is successful, the server returns a **CopyItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.1.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **CopyItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **CopyItemResponseMessage** element is set to "NoError".

If the **CopyItem** WSDL operation request is not successful, it returns a **CopyItemResponse** element with the **ResponseClass** attribute of the **CopyItemResponseMessage** element set to "Error". The **ResponseCode** element of the **CopyItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **CopyItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.1.

3.1.4.2 CreateItem

The **CreateItem** operation creates email messages.

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

```

<wsdl:operation name="CreateItem">
  <wsdl:input message="tns:CreateItemSoapIn" />
  <wsdl:output message="tns:CreateItemSoapOut" />
</wsdl:operation>

```

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

```

<wsdl:operation name="CreateItem">

```



```

    <soap:operation
      soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateItem" />
    <wsdl:input>
      <soap:header message="tns:CreateItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="TimeZoneContext" use="literal"/>
      <soap:body parts="request" use="literal" />
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="CreateItemResult" use="literal" />
      <soap:header message="tns:CreateItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>

```

The protocol client sends a **CreateItemSoapIn** request WSDL message, and the protocol server responds with a **CreateItemSoapOut** response WSDL message.

If the **CreateItem** WSDL operation request is successful, the server returns a **CreateItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **CreateItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **CreateItemResponseMessage** element is set to "NoError".

If the **CreateItem** WSDL operation is not successful, it returns a **CreateItemResponse** element with the **ResponseClass** attribute of the **CreateItemResponseMessage** element set to "Error". The **ResponseCode** element of the **CreateItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **CreateItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.2.

3.1.4.3 DeleteItem

The **DeleteItem** operation deletes email messages from the server store.

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

```

<wsdl:operation name="DeleteItem">
  <wsdl:input message="tns>DeleteItemSoapIn" />
  <wsdl:output message="tns>DeleteItemSoapOut" />
</wsdl:operation>

```

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

```

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

```

```

    <soap:body parts="DeleteItemResult" use="literal" />
    <soap:header message="tns:DeleteItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

The protocol client sends a **DeleteItemSoapIn** request WSDL message, and the protocol server responds with a **DeleteItemSoapOut** response WSDL message.

If the **DeleteItem** WSDL operation request is successful, the server returns a **DeleteItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.3.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **DeleteItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified by [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **DeleteItemResponseMessage** element is set to "NoError".

If the **DeleteItem** WSDL operation request is not successful, it returns a **DeleteItemResponse** element with the **ResponseClass** attribute of the **DeleteItemResponseMessage** element set to "Error". The **ResponseCode** element of the **DeleteItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **DeleteItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.3.

3.1.4.4 GetItem

The **GetItem** operation enables the user to get email messages and to access information about email messages.

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

```

<wsdl:operation name="GetItem">
  <wsdl:input message="tns:GetItemSoapIn" />
  <wsdl:output message="tns:GetItemSoapOut" />
</wsdl:operation>

```

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

```

<wsdl:operation name="GetItem">
  <soap:operation
  soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetItem" />
  <wsdl:input>
    <soap:header message="tns:GetItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:GetItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:GetItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:header message="tns:GetItemSoapIn" part="TimeZoneContext" use="literal"/>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="GetItemResult" use="literal" />
    <soap:header message="tns:GetItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

The **GetItem** operation request MUST include the elements listed in the following table.

Element name	Description
ItemShape	Specifies a set of properties to be returned. The child elements for this element are listed in the following table.
ItemIds	Contains the unique identities of items. This element includes the Id attribute, which identifies a specific item in the store, and the ChangeKey attribute, which identifies a specific version of an item.

The child elements of the **ItemShape** element are listed in the following table.

Element name	Description
BaseShape	Identifies the basic configuration of properties to be returned in an item response. Set this element to IdOnly to return only the item ID, or set it to AllProperties to return all of the properties used by the server to construct a message. This element MUST be present.
IncludeMimeContent	Indicates whether MIME content is included in a returned message or attachment.
BodyType	Indicates whether a message body is returned as HTML.
FilterHtmlContent	Indicates whether to filter unsafe HTML content from a message or attachment.
AdditionalProperties	Identifies additional item properties to be returned in a response.

The protocol client sends a **GetItemSoapIn** request WSDL message, and the protocol server responds with a **GetItemSoapOut** response WSDL message.

If the **GetItem** WSDL operation request is successful, the server returns a **GetItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.4.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **GetItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **GetItemResponseMessage** element is set to "NoError".

If the **GetItem** WSDL operation request is not successful, it returns a **GetItemResponse** element with the **ResponseClass** attribute of the **GetItemResponseMessage** element set to "Error". The **ResponseCode** element of the **GetItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **GetItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.2.

3.1.4.5 MoveItem

The **MoveItem** operation moves one or more email messages to a single destination folder.

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

```
<wsdl:operation name="MoveItem">
  <wsdl:input message="tns:MoveItemSoapIn" />
  <wsdl:output message="tns:MoveItemSoapOut" />
</wsdl:operation>
```

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

```
<wsdl:operation name="MoveItem">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/MoveItem" />
  <wsdl:input>
    <soap:header message="tns:MoveItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:MoveItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:MoveItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="MoveItemResult" use="literal" />
    <soap:header message="tns:MoveItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **MoveItemSoapIn** request WSDL message, and the protocol server responds with a **MoveItemSoapOut** response WSDL message.

If the **MoveItem** WSDL operation request is successful, the server returns a **MoveItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.7.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **MoveItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **MoveItemResponseMessage** element is set to "NoError".

If the **MoveItem** WSDL operation request is not successful, it returns a **MoveItemResponse** element with the **ResponseClass** attribute of the **MoveItemResponseMessage** element set to "Error". The **ResponseCode** element of the **MoveItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **MoveItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.7.

3.1.4.6 SendItem

The **SendItem** operation sends email messages that are located in the server store.

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

```
<wsdl:operation name="SendItem">
  <wsdl:input message="tns:SendItemSoapIn" />
  <wsdl:output message="tns:SendItemSoapOut" />
</wsdl:operation>
```

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

```
<wsdl:operation name="SendItem">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SendItem" />
  <wsdl:input>
    <soap:header message="tns:SendItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:SendItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:SendItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="SendItemResult" use="literal" />
    <soap:header message="tns:SendItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>
```

```

</wsdl:input>
<wsdl:output>
  <soap:body parts="SendItemResult" use="literal" />
  <soap:header message="tns:SendItemSoapOut" part="ServerVersion" use="literal"/>
</wsdl:output>
</wsdl:operation>

```

The protocol client sends a **SendItemSoapIn** request WSDL message, and the protocol server responds with a **SendItemSoapOut** response WSDL message.

If the **SendItem** WSDL operation request is successful, the server returns a **SendItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.8.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **SendItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57 of the **SendItemResponseMessage** element is set to "NoError".

If the **SendItem** WSDL operation request is not successful, it returns a **SendItemResponse** element with the **ResponseClass** attribute of the **SendItemResponseMessage** element set to "Error". The **ResponseCode** element of the **SendItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **SendItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.8.

3.1.4.7 UpdateItem

The **UpdateItem** operation updates email message properties in the server store.

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

```

<wsdl:operation name="UpdateItem">
  <wsdl:input message="tns:UpdateItemSoapIn" />
  <wsdl:output message="tns:UpdateItemSoapOut" />
</wsdl:operation>

```

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

```

<wsdl:operation name="UpdateItem">
  <soap:operation
    soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/UpdateItem" />
  <wsdl:input>
    <soap:header message="tns:UpdateItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:UpdateItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:UpdateItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:header message="tns:UpdateItemSoapIn" part="TimeZoneContext" use="literal"/>
    <soap:body parts="request" use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="UpdateItemResult" use="literal" />
    <soap:header message="tns:UpdateItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>

```

The **UpdateItem** operation modifies a message that has already been created and sent. The **UpdateItem** operation request can contain the **MessageDispositionType** simple type (section [2.2.5.1](#)) and MUST contain the **ConflictResolutionType** simple type ([\[MS-OXWSCORE\]](#) section 3.1.4.9.4.1).

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

If the **UpdateItem** WSDL operation request is successful, the server returns an **UpdateItemResponse** element, as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.9.2.2, with the **ResponseClass** attribute, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **UpdateItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.10, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.57, of the **UpdateItemResponseMessage** element is set to "NoError".

If the **UpdateItem** WSDL operation request is not successful, it returns an **UpdateItemResponse** element with the **ResponseClass** attribute of the **UpdateItemResponseMessage** element set to "Error". The **ResponseCode** element of the **UpdateItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.23.

For more information, see **UpdateItem** as described in [\[MS-OXWSCORE\]](#) section 3.1.4.9.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

The following examples show the request and response XML for the operations that this protocol uses.

4.1 Create Message Example

The following is an example of a **CreateItem** operation that creates a message. This example creates an email message with only the **Subject** and **Body** properties completed, and then it sends the email message to User1 and User2 at Contoso.com. The email message can be set with many more properties, such as attachments, Bcc recipients, categories, sender, and item class. This example shows how to send an email message and save a copy of the message in the default Sent Items folder by using the **SendAndSaveCopy** method.

The client constructs the request XML and sends it to the server. The newly created message is sent to the server.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:CreateItem MessageDisposition="SendAndSaveCopy">
      <m:SavedItemFolderId>
        <t:DistinguishedFolderId Id="sentitems" />
      </m:SavedItemFolderId>
      <m:Items>
        <t:Message>
          <t:Subject>Interesting</t:Subject>
          <t:Body BodyType="HTML">The merger is finalized.</t:Body>
          <t:ToRecipients>
            <t:Mailbox>
              <t:EmailAddress>User1@Contoso.com</t:EmailAddress>
            </t:Mailbox>
            <t:Mailbox>
              <t:EmailAddress>User2@Contoso.com</t:EmailAddress>
            </t:Mailbox>
          </t:ToRecipients>
        </t:Message>
      </m:Items>
    </m:CreateItem>
  </soap:Body>
</soap:Envelope>
```

The server constructs the response XML and sends it to the client.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
```

```

    MinorBuildNumber="0"
    Version="Exchange2010"
    xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:CreateItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:CreateItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items />
        </m:CreateItemResponseMessage>
      </m:ResponseMessages>
    </m:CreateItemResponse>
  </s:Body>
</s:Envelope>

```

4.2 Get Message Example

The following is an example of a [GetItem](#) operation that gets a message. This example gets a message from the server store. The message is already identified with its **ItemId** Id and **ChangeKey** attributes.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:GetItem>
      <m:ItemShape>
        <t:BaseShape>IdOnly</t:BaseShape>
        <t:AdditionalProperties>
          <t:FieldURI FieldURI="item:Body" />
        </t:AdditionalProperties>
      </m:ItemShape>
      <m:ItemIds>
        <t:ItemId Id="AAMkAGY4YzQw" ChangeKey="CQAAAByAAA " />
      </m:ItemIds>
    </m:GetItem>
  </soap:Body>
</soap:Envelope>

```

The server constructs the response XML and sends it to the client. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.


```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:GetItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:GetItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items>
            <t:Message>
              <t:ItemId Id="AAMkAGY4YzQw" ChangeKey="CQAAABYAAA " />
              <t:Body BodyType="HTML">&lt;meta http-equiv="Content-Type"
content="text/html;
              charset=utf-8"&gt;The merger is finalized.</t:Body>
            </t:Message>
          </m:Items>
        </m:GetItemResponseMessage>
      </m:ResponseMessages>
    </m:GetItemResponse>
  </s:Body>
</s:Envelope>

```

4.3 Update Message Example

The following is an example of an **UpdateItem** operation that updates a message. This example updates the subject of an existing message. The message is already identified with its **ItemId** Id and **ChangeKey** attributes.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:UpdateItem MessageDisposition="SaveOnly" ConflictResolution="AlwaysOverwrite">
      <m:ItemChanges>
        <t:ItemChange>
          <t:ItemId Id="AAMkAGIw" ChangeKey="CQAAABYAAA" />

```

```

    <t:Updates>
      <t:SetItemField>
        <t:FieldURI FieldURI="item:Subject" />
        <t:Message>
          <t:Subject>Modified and updated mail</t:Subject>
        </t:Message>
      </t:SetItemField>
    </t:Updates>
  </t:ItemChange>
</m:ItemChanges>
</m:UpdateItem>
</soap:Body>
</soap:Envelope>

```

The server constructs the response XML and sends it to the client. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:UpdateItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:UpdateItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items>
            <t:Message>
              <t:ItemId Id="AAMkAGIwODEy=" ChangeKey="CQAAABYAAA" />
            </t:Message>
          </m:Items>
          <m:ConflictResults>
            <t:Count>0</t:Count>
          </m:ConflictResults>
        </m:UpdateItemResponseMessage>
      </m:ResponseMessages>
    </m:UpdateItemResponse>
  </s:Body>
</s:Envelope>

```

4.4 Delete Message Example

The following is an example of a **DeleteItem** operation that deletes a message. This example deletes the identified message from the server store.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id attribute is shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:DeleteItem DeleteType="HardDelete">
      <m:ItemIds>
        <t:ItemId Id="AAMkAGY4YzQw" />
      </m:ItemIds>
    </m:DeleteItem>
  </soap:Body>
</soap:Envelope>
```

The server constructs the response XML and sends it to the client.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:DeleteItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:DeleteItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
        </m:DeleteItemResponseMessage>
      </m:ResponseMessages>
    </m:DeleteItemResponse>
  </s:Body>
</s:Envelope>
```

4.5 Move Message Example

The following is an example of a **MoveItem** operation that moves a message to a specific folder. This example moves an identified message to the **Junk Email folder**.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id attribute has been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:MoveItem>
      <m:ToFolderId>
        <t:DistinguishedFolderId Id="junkemail" />
      </m:ToFolderId>
      <m:ItemIds>
        <t:ItemId Id="AAMkAGIw " />
      </m:ItemIds>
    </m:MoveItem>
  </soap:Body>
</soap:Envelope>

```

The server constructs the response XML and sends it to the client. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
    </s:Header>
    <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <m:MoveItemResponse
        xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
        xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
        <m:ResponseMessages>
          <m:MoveItemResponseMessage ResponseClass="Success">
            <m:ResponseCode>NoError</m:ResponseCode>
            <m:Items>
              <t:Message>
                <t:ItemId Id="AAMkAGIw" ChangeKey="CQAAABYAAA" />
              </t:Message>
            </m:Items>
          </m:MoveItemResponseMessage>
        </m:ResponseMessages>
      </m:MoveItemResponse>
    </s:Body>
  </s:Envelope>

```

4.6 Copy Message Example

The following is an example of a **CopyItem** operation that copies a message to another folder. This example copies an identified message to the Junk Email folder.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:CopyItem>
      <m:ToFolderId>
        <t:DistinguishedFolderId Id="junkemail" />
      </m:ToFolderId>
      <m:ItemIds>
        <t:ItemId Id="AAMkAGIw" ChangeKey="CQAAABYAAA" />
      </m:ItemIds>
    </m:CopyItem>
  </soap:Body>
</soap:Envelope>
```

The server constructs the response XML and sends it to the client. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:CopyItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:CopyItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items>
            <t:Message>
              <t:ItemId Id="AAMkAGIw" ChangeKey="CQAAABYAAA" />
            </t:Message>
          </m:Items>
        </m:CopyItemResponseMessage>
      </m:ResponseMessages>
    </s:Body>
  </s:Envelope>
```

```

        </m:CopyItemResponseMessage>
    </m:ResponseMessages>
</m:CopyItemResponse>
</s:Body>
</s:Envelope>

```

4.7 Send Message Example

The following is an example of a **SendItem** operation that sends a message to the server. This example sends an identified message.

The client constructs the request XML and sends it to the server. Note that the **ItemId** Id and **ChangeKey** attributes have been shortened to preserve readability.

```

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
  xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:SendItem SaveItemToFolder="false">
      <m:ItemIds>
        <t:ItemId Id="AAMkAGIw" ChangeKey="CQAAABYAAA" />
      </m:ItemIds>
    </m:SendItem>
  </soap:Body>
</soap:Envelope>

```

The server constructs the response XML and sends it to the client.

```

<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
      MinorVersion="1"
      MajorBuildNumber="63"
      MinorBuildNumber="0"
      Version="Exchange2010"
      xmlns:h="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" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:SendItemResponse
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:SendItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
        </m:SendItemResponseMessage>
      </m:ResponseMessages>
    </s:Body>
  </s:Envelope>

```

```
</m:SendItemResponse>  
</s:Body>  
</s:Envelope>
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

The following table lists the XML files that are required to implement the functionality that is specified in this document.

File name	Description	Section
MS-OXWSMSG.wsdl	Contains the WSDL for the implementation of this protocol.	6
MS-OXWSMSG-types.xsd	Contains the XML schema type definitions used in this protocol.	7

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

This section contains the contents of the MS-OXWSMSG.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:s="http://www.w3.org/2001/XMLSchema" 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="Exchange2013"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
      <xs:include schemaLocation="MS-OXWSCORE-messages.xsd"/>
      <!-- Add global elements and types from messages.xsd -->
    </xs:schema>
    <xs:schema id="types" elementFormDefault="qualified" version="Exchange2013"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
      <!-- Add global elements and types from types.xsd -->
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="CopyItemSoapIn">
    <wsdl:part name="request" element="tns:CopyItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
  <wsdl:message name="CopyItemSoapOut">
    <wsdl:part name="CopyItemResult" element="tns:CopyItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="CreateItemSoapIn">
    <wsdl:part name="request" element="tns:CreateItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  </wsdl:message>
</wsdl:definitions>
```

```

    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
</wsdl:message>
<wsdl:message name="CreateItemSoapOut">
    <wsdl:part name="CreateItemResult" element="tns:CreateItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="DeleteItemSoapIn">
    <wsdl:part name="request" element="tns>DeleteItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="DeleteItemSoapOut">
    <wsdl:part name="DeleteItemResult" element="tns>DeleteItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="GetItemSoapIn">
    <wsdl:part name="request" element="tns:GetItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
</wsdl:message>
<wsdl:message name="GetItemSoapOut">
    <wsdl:part name="GetItemResult" element="tns:GetItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="MoveItemSoapIn">
    <wsdl:part name="request" element="tns:MoveItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="MoveItemSoapOut">
    <wsdl:part name="MoveItemResult" element="tns:MoveItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="SendItemSoapIn">
    <wsdl:part name="request" element="tns:SendItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="SendItemSoapOut">
    <wsdl:part name="SendItemResult" element="tns:SendItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="UpdateItemSoapIn">
    <wsdl:part name="request" element="tns:UpdateItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
</wsdl:message>
<wsdl:message name="UpdateItemSoapOut">
    <wsdl:part name="UpdateItemResult" element="tns:UpdateItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>

```

```

<wsdl:portType name="ExchangeServicePortType">
  <wsdl:operation name="CopyItem">
    <wsdl:input message="tns:CopyItemSoapIn"/>
    <wsdl:output message="tns:CopyItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="CreateItem">
    <wsdl:input message="tns:CreateItemSoapIn"/>
    <wsdl:output message="tns:CreateItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="DeleteItem">
    <wsdl:input message="tns>DeleteItemSoapIn"/>
    <wsdl:output message="tns>DeleteItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="GetItem">
    <wsdl:input message="tns:GetItemSoapIn"/>
    <wsdl:output message="tns:GetItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="MoveItem">
    <wsdl:input message="tns:MoveItemSoapIn"/>
    <wsdl:output message="tns:MoveItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="SendItem">
    <wsdl:input message="tns:SendItemSoapIn"/>
    <wsdl:output message="tns:SendItemSoapOut"/>
  </wsdl:operation>
  <wsdl:operation name="UpdateItem">
    <wsdl:input message="tns:UpdateItemSoapIn"/>
    <wsdl:output message="tns:UpdateItemSoapOut"/>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:documentation>
    <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-
i.org/schemas/conformanceClaim/">
  </wsdl:documentation>
  <wsdl:operation name="CopyItem">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CopyItem"/>
    <wsdl:input>
      <soap:header message="tns:CopyItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:CopyItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:CopyItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="CopyItemResult" use="literal"/>
      <soap:header message="tns:CopyItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="CreateItem">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateItem"/>
    <wsdl:input>
      <soap:header message="tns:CreateItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:header message="tns:CreateItemSoapIn" part="TimeZoneContext" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>
  </wsdl:operation>

```

```

    </wsdl:input>
    <wsdl:output>
      <soap:body parts="CreateItemResult" use="literal"/>
      <soap:header message="tns:CreateItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="DeleteItem">
    <soap:operation
      soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DeleteItem"/>
    <wsdl:input>
      <soap:header message="tns:DeleteItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:DeleteItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:DeleteItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="DeleteItemResult" use="literal"/>
      <soap:header message="tns:DeleteItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetItem">
    <soap:operation
      soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetItem"/>
    <wsdl:input>
      <soap:header message="tns:GetItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:GetItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:GetItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:header message="tns:GetItemSoapIn" part="TimeZoneContext" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="GetItemResult" use="literal"/>
      <soap:header message="tns:GetItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="MoveItem">
    <soap:operation
      soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/MoveItem"/>
    <wsdl:input>
      <soap:header message="tns:MoveItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:MoveItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:MoveItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body parts="MoveItemResult" use="literal"/>
      <soap:header message="tns:MoveItemSoapOut" part="ServerVersion" use="literal"/>
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="UpdateItem">
    <soap:operation
      soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/UpdateItem"/>
    <wsdl:input>
      <soap:header message="tns:UpdateItemSoapIn" part="Impersonation" use="literal"/>
      <soap:header message="tns:UpdateItemSoapIn" part="MailboxCulture" use="literal"/>
      <soap:header message="tns:UpdateItemSoapIn" part="RequestVersion" use="literal"/>
      <soap:header message="tns:UpdateItemSoapIn" part="TimeZoneContext" use="literal"/>
      <soap:body parts="request" use="literal"/>
    </wsdl:input>

```

```
<wsdl:output>
  <soap:body parts="UpdateItemResult" use="literal"/>
  <soap:header message="tns:UpdateItemSoapOut" part="ServerVersion" use="literal"/>
</wsdl:output>
</wsdl:operation>
<wsdl:operation name="SendItem">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/SendItem"/>
  <wsdl:input>
    <soap:header message="tns:SendItemSoapIn" part="Impersonation" use="literal"/>
    <soap:header message="tns:SendItemSoapIn" part="MailboxCulture" use="literal"/>
    <soap:header message="tns:SendItemSoapIn" part="RequestVersion" use="literal"/>
    <soap:body parts="request" use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="SendItemResult" use="literal"/>
    <soap:header message="tns:SendItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>
```

7 Appendix B: Full XML Schema

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

MS-OXWSMSG-types.xsd includes the file listed in the following table. For the schema file to operate correctly, this file has to be present in the folder that contains the WSDL and types schema files for this protocol.

File name	Defining specification
MS-OXWSMSG-types.xsd	[MS-OXWSMSG] section 7.2

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema 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/types"
  elementFormDefault="qualified" version="Exchange2013" id="types">
<xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
<xs:include schemaLocation="MS-OXWSMSG-types.xsd"/>
<xs:complexType name="MessageType">
  <xs:complexContent>
    <xs:extension base="t:ItemType">
      <xs:sequence>
        <xs:element name="Sender" type="t:SingleRecipientType" minOccurs="0"/>
        <xs:element name="ToRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
        <xs:element name="CcRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
        <xs:element name="BccRecipients" type="t:ArrayOfRecipientsType" minOccurs="0"/>
        <xs:element name="IsReadReceiptRequested" type="xs:boolean" minOccurs="0"/>
        <xs:element name="IsDeliveryReceiptRequested" type="xs:boolean" minOccurs="0"/>
        <xs:element name="ConversationIndex" type="xs:base64Binary" minOccurs="0"/>
        <xs:element name="ConversationTopic" type="xs:string" minOccurs="0"/>
        <xs:element name="From" type="t:SingleRecipientType" minOccurs="0"/>
        <xs:element name="InternetMessageId" type="xs:string" minOccurs="0"/>
        <xs:element name="IsRead" type="xs:boolean" minOccurs="0"/>
        <xs:element name="IsResponseRequested" type="xs:boolean" minOccurs="0"/>
        <xs:element name="References" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyTo" type="t:ArrayOfRecipientsType" minOccurs="0"/>
        <xs:element name="ReceivedBy" type="t:SingleRecipientType" minOccurs="0"/>
        <xs:element name="ReceivedRepresenting" type="t:SingleRecipientType"
          minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:simpleType name="MessageDispositionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SaveOnly" />
    <xs:enumeration value="SendOnly" />
    <xs:enumeration value="SendAndSaveCopy" />
  </xs:restriction>
</xs:simpleType>
</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 2007
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013

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.

9 Change Tracking

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

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