

[MS-OXWSMSG]: E-Mail Message Types Web Service Protocol Specification

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Revision Summary

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1 Introduction

This document specifies the E-Mail Message Types Web Service protocol, which represents an e-mail message in a mailbox.

1.1 Glossary

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

Web Services Description Language (WSDL)
WSDL message
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 described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)", June 2008.

[MS-OXWSCORE] Microsoft Corporation, "[Core Items Web Service Protocol Specification](#)", July 2009.

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

[SOAP1.1] Box, D., 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] World Wide Web Consortium, "Namespaces in XML 1.0 (Second Edition)", August 2006, <http://www.w3.org/TR/REC-xml-names/>.

[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

None.

1.3 Protocol Overview

The E-Mail Message Types Web Service protocol provides clients with the ability to create, update, and delete e-mail items on the server. Clients create e-mail items using the CreateItem operation, or get the properties of an existing task item using the GetItem operation. E-mails can also be sent, updated, deleted, or copied on the server using SendItem, UpdateItem, DeleteItem, and CopyItem respectively.

1.4 Relationship to Other Protocols

The E-Mail Message Types Web Service protocol uses SOAP over **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as shown in the following figures.

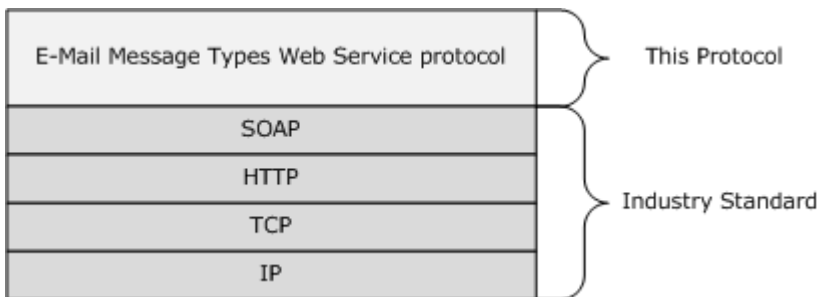


Figure 1: SOAP over HTTP

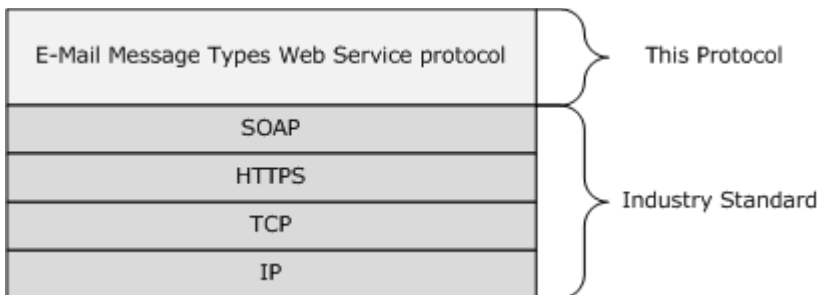


Figure 2: SOAP over HTTPS

1.5 Prerequisites/Preconditions

None.

1.6 Applicability Statement

The protocol specified in this document is applicable to environments that copy, create, delete, get, send, or update e-mails using Exchange Web Services.

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.

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 specified in section [3.1.4](#).

Capability Negotiation: None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The SOAP version supported is SOAP 1.1. For details, see [\[SOAP1.1\]](#).

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML schema**, as specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and **Web Services Description Language (WSDL)**, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific **XML namespace** prefix for each **XML namespace** that is used, the choice of any particular **XML 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	[MS-OXWSMSG]
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	[MS-OXWSMSG]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
t	http://schemas.microsoft.com/exchange/services/2006/types	[MS-OXWSMSG]

2.2.2 Simple Types

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

Simple Type	Description
t:MessageDispositionType	The MessageDispositionType enumeration specifies how a message item is handled after it is created or updated.

2.2.2.1 t:MessageDispositionType Simple Type

The **MessageDispositionType** simple type enumeration 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>

```

Enumeration

The following values are defined by the **MessageDispositionType** simple type:

Value	Description
SaveOnly	When used in the <CreateItemType> element, the e-mail message item is saved in the folder that is specified by the TargetFolderIdType property. Messages can be sent later by using the SendItem operation on an ExchangeServiceBinding object. In this case, an item identifier is returned.
SendOnly	When used in the <CreateItemType> element, the e-mail message item is sent but no copy is saved. In this case, an item identifier is not returned.
SendAndSaveCopy	When used in the <CreateItemType> element, the e-mail message item is sent and a copy is saved in the TargetFolderIdType property. In this case, an item identifier is not returned.

2.2.3 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.

ComplexType	Description
t:MessageType	Represents a server e-mail message in a mailbox.

2.2.3.1 t:MessageType Complex Type

The **MessageType** complex type represents a server e-mail message in a mailbox.

```

<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>

```

Child Elements

Element	Type	Description
Sender	t:SingleRecipientType	The <Sender> element gets or sets the sender of a message. This element is optional. This is a read/write element.
ToRecipients	t:ArrayOfRecipientsType	The <ToRecipients> element gets or sets a collection of recipients of an e-mail. This element is required for sending a message. This is a read/write element.
CcRecipients	t:ArrayOfRecipientsType	The <CcRecipients> element gets or sets a collection of recipients that receive a carbon copy (Bcc) of an e-mail. This element is optional. This is a read/write element.
BccRecipients	t:ArrayOfRecipientsType	The <BccRecipients> element gets or sets a collection of recipients that receive a blind carbon copy (Bcc) of an e-mail. This element is optional. This is a read/write element.
IsReadReceiptRequested	xs:boolean	The <IsReadReceiptRequested> element gets or sets a Boolean value that specifies whether the sender of a message requests a read receipt. This element is optional. This is a read/write element.
IsDeliveryReceiptRequested	xs:boolean	The <IsDeliveryReceiptRequestedSpecified> element gets or sets a Boolean value that specifies whether the <IsDeliveryReceiptRequested> element is serialized into the Simple Object Access protocol (SOAP) request. This element is required when the <IsDeliveryReceiptRequested> element is specified. This is a read/write element.
ConversationIndex	xs:base64Binary	The <ConversationIndex> element gets or sets the identifier to the thread to which the message belongs. This element is optional. This is a read/write element.
ConversationTopic	xs:string	The <ConversationTopic> element gets or sets the conversation identifier. This element is optional. This is a read/write element.
From	t:SingleRecipientType	The <From> element gets or sets the addressee from whom the message was sent. This element is optional. This is a read/write element.

Element	Type	Description
InternetMessageId	xs:string	The <InternetMessageId> element gets or sets the Internet message identifier for the message. This element is optional. This is a read/write element.
IsRead	xs:boolean	The <IsRead> element gets a Boolean value that specifies whether the message has been read. This element is read-only.
IsResponseRequested	xs:boolean	The <IsResponseRequested> element gets or sets a Boolean value that specifies whether a response to an e-mail is requested. This element is optional. This is a read/write element.
References	xs:string	The <References> element gets or sets a string that represents 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	The <ReplyTo> element gets or sets a collection of addresses to which replies should be sent. This element is optional. This is a read/write element.
ReceivedBy	t:SingleRecipientType	The <ReceivedBy> element identifies the delegate in a delegate access scenario.
ReceivedRepresenting	t:SingleRecipientType	The <ReceivedRepresenting> element identifies the principal in a delegate access scenario.

2.2.4 Elements

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

2.2.5 Attributes

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

2.2.6 Groups

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

2.2.7 Attribute Groups

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

2.2.8 Message Syntax

This specification does not define any common **XML schema** message 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 Core Items Web Service protocol defines a single port type.

Operation	Description
GetItem	Defines a request to get a message item from a mailbox on the server.
CreateItem	Defines a request to create a message item on the server.
DeleteItem	Defines a request to delete a message item from a mailbox on the server.
UpdateItem	Defines a request to update a message item in a mailbox.
MoveItem	Defines a request to move a message item on the server.
CopyItem	Defines a request to copy a message item in a mailbox on the server.
SendItem	Defines a request to send a message item element.

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

This protocol specifies the operations listed in the following table.

Operation	Description
GetItem	Gets items from the server.
CreateItem	Creates items on the server.
DeleteItem	Deletes items from the server.
UpdateItem	Updates items on the server.

Operation	Description
SendItem	Sends items to the server.
MoveItem	Moves items on the server.
CopyItem	Copies items on the server.

3.1.4.1 CreateItem

This protocol uses the **CreateItem** operation to create e-mail messages.

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

Request

Message Format	Description
tns:CreateItemSoapIn	Specifies the SOAP message that defines the message item to create. The Items child element of the CreateItem child element that specifies the XML request MUST contain one or more t:MessageType elements. All other elements MUST be empty.

Response

Message Format	Description
tns:CreateItemSoapOut	Specifies the [SOAP] message returned by the server in response.

3.1.4.2 GetItem

This protocol uses the **GetItem** operation to access information about e-mail messages.

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

Request

Message Format	Description
tns:GetItemSoapIn	Specifies the SOAP message that defines the message item to get. The Items child element of the GetItem child element that specifies the XML request MUST contain the t:ItemResponseShapeType and t:ItemIdType elements.

Response

Message Format	Description
tns:GetItemSoapOut	Specifies the [SOAP] message returned by the server in response. The server returns a t:ItemResponseShapeType element that contains properties associated with the message item.

The GetItem request MUST have the following elements:

Element	Description
ItemShape	A set of properties to be returned. See child elements below.
ItemIds	Contains the unique identities of items. Id: Identifies a specific item in the Exchange store. ChangeKey: Identifies a specific version of an item.

The child elements of an ItemShape that can be include the the elements in the following table.

Element	Description
BaseShape	Identifies the basic configuration of properties to return in an item response. Set to IdOnly to return only the item id or set to AllProperties to return all the properties used by the server to construct a message. This element MUST be present.
IncludeMimeContent	Set to True to include Mime content in the returned message or attachment. Set to False otherwise.
BodyType	Set to HTML to return a message body as HTML Set to Text to return a message body as text.
FilterHtmlContent	Set to True to filter potential unsafe HTML content from the message or attachment. Set to False otherwise.
AdditionalProperties	Identifies additional item properties to return in a response. An example would be FieldURI="item:Body" or FieldURI="item:ItemClass".

3.1.4.3 UpdateItem

This protocol uses the **UpdateItem** operation to update e-mail message properties in the server store.

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

Request

Message Format	Description
tns:UpdateItemSoapIn	Specifies the SOAP message that defines the message item to update.

Response

Message Format	Description
tns:UpdateItemSoapOut	Specifies the SOAP message returned by the server in response.

The **UpdateItem** operation modifies a message that is already created and sent. The UpdateItem request MAY contain the [t:MessageDispositionType](#) attribute and MUST contain the [t:ConflictResolutionType](#) attribute.

3.1.4.4 DeleteItem

This protocol uses the **DeleteItem** operation to delete e-mail messages from the server store

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

Request

Message Format	Description
tns:DeleteItemSoapIn	Specifies the SOAP message that defines the message item to delete. The Items child element of the DeleteItem child element that specifies the XML request MUST contain one or more t:ItemIdType elements. All other elements MUST be empty.

Response

Message Format	Description
tns:DeleteItemSoapOut	Specifies the [SOAP] message returned by the server in response.

3.1.4.5 MoveItem

This protocol uses the **MoveItem** operation to move one or more e-mail messages to a single destination folder.

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

Request

Message Format	Description
tns:MoveItemSoapIn	Specifies the SOAP message that defines the message item to move. The Items child element of the MoveItem child element that specifies the XML request MUST contain the t:TargetFolderIdType and t:ItemIdType elements. All other elements MUST be empty.

Response

Message Format	Description
tns:MoveItemSoapOut	Specifies the SOAP message returned by the server in response.

In the [Move Message Example](#), the [MoveItemType](#) complex type contains the ToFolderId element. The ToFolderId element specifies the folder to which the items will be moved. The ToFolderId element contains the identifier of the destination folder. Note that all items listed in the [ItemIds](#) collection will be moved to the destination folder.

3.1.4.6 CopyItem

This protocol uses the **CopyItem** operation to copy e-mail messages and puts the messages in a different folder.

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

Request

Message Format	Description
tns:CopyItemSoapIn	Specifies the SOAP message that defines the message item to copy. The Items child element of the CopyItem child element that specifies the XML request MUST contain the t:TargetFolderIdType and t:ItemIdType elements. All other elements MUST be empty.

Response

Message Format	Description
tns:CopyItemSoapOut	Specifies the SOAP message returned by the server in response.

In the [Copy Message Example](#), the [CopyItemType](#) complex type contains the ToFolderId element. The ToFolderId element specifies the folder to which the items will be copied. The ToFolderId element contains the identifier of the destination folder. Note that all items listed in the [ItemIds](#) collection will be copied to the destination folder.

3.1.4.7 SendItem

This protocol uses the **SendItem** operation to send e-mail messages that are located in the server store.

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

Request

Message Format	Description
tns:SendItemSoapIn	Specifies the SOAP message that defines the message item to send. The Items child element of the SendItem child element that specifies the XML request MUST contain the t:TargetFolderIdType and t:ItemIdType elements. All other elements MUST be empty.

Response

Message Format	Description
tns:SendItemSoapOut	Specifies the SOAP message returned by the server in response.

The [Send Message Example](#) shows an XML Request and Response for the **SendItem** operation.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

3.2 Client 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 that are returned by the transport are passed directly back to the higher-layer protocol or application.

3.2.1 Abstract Data Model

None.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Message Processing Events and Sequencing

None.

3.2.5 Timer Events

None.

3.2.6 Other Local Events

None.

4 Protocol Examples

The following examples, [Create Message Example](#), [Get Message Example](#), [Update Message Example](#), [Delete Message Example](#), [Move Message Example](#), [Copy Message Example](#), and [Send Message Example](#) show the request and response XML to perform the specific operations.

4.1 Create Message Example

The following is an example of a [CreateItem](#) operation used to create a message to User1 and User2 at Contoso.com. This example creates a mail and has only the Subject and Body properties completed. The e-mail 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 e-mail 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" />
  </s:Header>
</s:Envelope>
```

```

    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 with the [m:GetItemType](#) complex type. This example gets a message from the server store. The message must already be identified with its ItemId Id and ChangeKey.

The client constructs the request XML and sends it to the server. 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. The `ItemId` 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 with the [UpdateItemType](#) complex type. This example updates the subject of an existing message.

The client constructs the request XML and sends it to the server. The `ItemId` 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. 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 with the [DeleteItemType](#) complex type. This example deletes the identified message from the server store.

The client constructs the request XML and sends it to the server. The newly created message is sent to the server. The `ItemId` 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 with a [MoveItemType](#) complex type. This example moves an identified message to the JunkMail folder.

The client constructs the request XML and sends it to the server. 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. 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="CQAAAABYAAA" />
            </t:Message>
          </m:Items>
        </m:MoveItemResponseMessage>
      </m:ResponseMessages>
    </s:Body>
  </s:Envelope>
```



```

        </m:MoveItemResponseMessage>
    </m:ResponseMessages>
</m:MoveItemResponse>
</s:Body>
</s:Envelope>

```

4.6 Copy Message Example

The following is an example of a [CopyItem](#) operation with a [CopyItemType](#) complex type. This example copies an identified message to the JunkMail folder.

The client constructs the request XML and sends it to the server. 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. 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="CQAAAABYAAA" />
      </t:Message>
    </m:Items>
  </m:CopyItemResponseMessage>
</m:ResponseMessages>
</m:CopyItemResponse>
</s:Body>
</s:Envelope>

```

4.7 Send Message Example

The following is an example of a [SendItem](#) operation with the [SendItemType](#) complex type. This example sends an identified message.

The client constructs the request XML and sends it to the server. The `ItemId` 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="CQAAAABYAAA" />
      </m:ItemIds>
    </m:SendItem>
  </soap:Body>
</soap:Envelope>
</EwsLogEntry>

```

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

5 Security

5.1 Security Considerations for Implementers

The E-Mail Message Types Web Service does not use additional security mechanisms.

5.2 Index of Security Parameters

None.

6 Appendix A: Full WSDL

The following **XML** files are required to implement the functionality described in this specification. The contents of each file are contained in this section.

Section	Protocol Filename	Description
WSDL	MS-OXWSMSG.wsdl	Contains the WSDL for the implementation of this protocol.
Types Schema	MS-OXWSMSG-types.xsd	Contains the XML schema type definitions used in this protocol.

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

6.1 WSDL

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="Exchange2010"
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:include schemaLocation="MS-OXWSATT-messages.xsd" />
    </xs:schema>
    <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="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:portType name="ExchangeServicePortType">
    <wsdl:operation name="CreateAttachment"
xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:CreateAttachmentSoapIn"/>
      <wsdl:output message="tns:CreateAttachmentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteAttachment"
xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:DeleteAttachmentSoapIn"/>
      <wsdl:output message="tns:DeleteAttachmentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetAttachment" xmlns:wSDL="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:GetAttachmentSoapIn"/>
    </wsdl:operation>
  </wsdl:portType>

```

```

        <wsdl:output message="tns:GetAttachmentSoapOut"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:message name="CreateAttachmentSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="request" element="tns:CreateAttachment"/>
    <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="CreateAttachmentSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="CreateAttachmentResult" element="tns:CreateAttachmentResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="DeleteAttachmentSoapIn"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="request" element="tns>DeleteAttachment"/>
    <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="DeleteAttachmentSoapOut"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="DeleteAttachmentResult" element="tns>DeleteAttachmentResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="GetAttachmentSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="request" element="tns:GetAttachment"/>
    <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="GetAttachmentSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <wsdl:part name="GetAttachmentResult" element="tns:GetAttachmentResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
    <wsdl:documentation xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
        <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0"
xmlns:wsi="http://ws-i.org/schemas/conformanceClaim/">
    </wsi:Claim>
    </wsdl:documentation>
    <soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:binding>
    <wsdl:operation name="CreateAttachment"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    </wsdl:operation>
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateAttachment"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:operation>
    <wsdl:input>
        <soap:header message="tns:CreateAttachmentSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:header>
        <soap:header message="tns:CreateAttachmentSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:header>
        <soap:header message="tns:CreateAttachmentSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:header>
        <soap:header message="tns:CreateAttachmentSoapIn" part="TimeZoneContext"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
    </soap:header>
    </wsdl:input>
</wsdl:binding>

```

```

        <soap:body parts="request" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="CreateAttachmentResult" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:CreateAttachmentSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="DeleteAttachment"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DeleteAttachment"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <wsdl:input>
        <soap:header message="tns:DeleteAttachmentSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:DeleteAttachmentSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:DeleteAttachmentSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:body parts="request" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="DeleteAttachmentResult" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:DeleteAttachmentSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="GetAttachment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetAttachment"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    <wsdl:input>
        <soap:header message="tns:GetAttachmentSoapIn" part="Impersonation"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:GetAttachmentSoapIn" part="MailboxCulture"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:GetAttachmentSoapIn" part="RequestVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:GetAttachmentSoapIn" part="TimeZoneContext"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:body parts="request" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="GetAttachmentResult" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
        <soap:header message="tns:GetAttachmentSoapOut" part="ServerVersion"
use="literal" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" />
    </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

6.2 Types Schema

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

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

Defining protocol	File name
[MS-OXWSCORE], section 6.2	MS-OXWSCORE -types.xsd

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:t="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"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
version="Exchange2010" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSCORE-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>
```

7 Appendix B: Product Behavior

The information in this specification is applicable to the following product versions. References to product versions include released service packs.

- Microsoft Exchange Server 2010

Exceptions, if any, are noted below. If a service pack number appears with the product version, behavior changed in that service pack. The new behavior also applies to subsequent service packs of the product unless otherwise specified.

Unless otherwise specified, any statement of optional behavior in this specification 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 product does not follow the prescription.

8 Change Tracking

This section identifies changes made to [MS-OXWSMSG] protocol documentation between November 2009 and February 2010 releases. Changes are classed as major, minor, or editorial.

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.
- A protocol is deprecated.
- The removal of a document from the documentation set.
- Changes made for template compliance.

Minor changes do not affect protocol interoperability or implementation. Examples are updates to fix technical accuracy or ambiguity at the sentence, paragraph, or table level.

Editorial changes apply to grammatical, formatting, and style issues.

No changes means that the document is identical to its last release.

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

- New content added.
- Content update.
- 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 always have the revision type "Editorially updated."

Some important terms used in revision 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.

Changes are listed in the following table. If you need further information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Revision Type
1.1 Glossary	Removed unused terms from Glossary the list.	N	Content removed.
3.1.4.2 GetItem	53992 Edited code snippet.	N	Editorially updated.
3.1.4.3 UpdateItem	53992 Updated typographical error. Added remarks.	N	Editorially updated.
3.1.4.5 MoveItem	53992 Added remarks, Updated code snippet.	N	New content added.
4 Protocol Examples	53992 Added examples.	Y	Content update.
4.1 Create Message Example	53992 Added new topic.	Y	New content added.
4.2 Get Message Example	53992 Added new topic.	Y	Content update.
4.3 Update Message Example	53992 Added new topic.	Y	New content added.
4.4 Delete Message Example	53992 Added new topic.	N	New content added.
4.5 Move Message Example	53992 Added new topic.	Y	New content added.
4.6 Copy Message Example	53992 Added new topic.	Y	New content added.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Revision Type
4.7 Send Message Example	53992 Added new topic.	Y	New content added.

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