

# [MS-OXWSMSG]:

## Email Message Types Web Service Protocol

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## Revision Summary

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11/4/2009	2.0.0	Major	Updated and revised the technical content.
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<b>Date</b>	<b>Revision History</b>	<b>Revision Class</b>	<b>Comments</b>
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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 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

## 1.1 Glossary

This document uses the following terms:

**delegate:** A user or resource that has permissions to act on behalf of another user or resource.

**delegate access:** The access that is granted by a delegator to a delegate and is used by the delegate to access the delegator's account.

**endpoint:** A communication port that is exposed by an application server for a specific shared service and to which messages can be addressed.

**Hypertext Transfer Protocol (HTTP):** An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

**Hypertext Transfer Protocol Secure (HTTPS):** An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

**Junk Email folder:** A special folder that is the default location for Message objects that are determined to be junk email by a Junk Email rule.

**mailbox:** A **message store** that contains email, calendar items, and other Message objects for a single recipient.

**message store:** A unit of containment for a single hierarchy of Folder objects, such as a mailbox or public folders.

**Multipurpose Internet Mail Extensions (MIME):** A set of extensions that redefines and expands support for various types of content in email messages, as described in [\[RFC2045\]](#), [\[RFC2046\]](#), and [\[RFC2047\]](#).

**SOAP:** A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses **XML** technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

**Uniform Resource Locator (URL):** A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

**web server:** A server computer that hosts websites and responds to requests from applications.

**Web Services Description Language (WSDL):** An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network

service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

**WSDL message:** An abstract, typed definition of the data that is communicated during a **WSDL operation** [[WSDL](#)]. Also, an element that describes the data being exchanged between web service providers and clients.

**WSDL operation:** A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

**WSDL port type:** A named set of logically-related, abstract **Web Services Description Language (WSDL)** operations and messages.

**XML:** The Extensible Markup Language, as described in [[XML1.0](#)].

**XML namespace:** A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [[RFC3986](#)]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [[XMLNS-2ED](#)].

**XML schema:** A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by **XML** itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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

## 1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto: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", W3C Note, May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

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

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

## 1.3 Overview

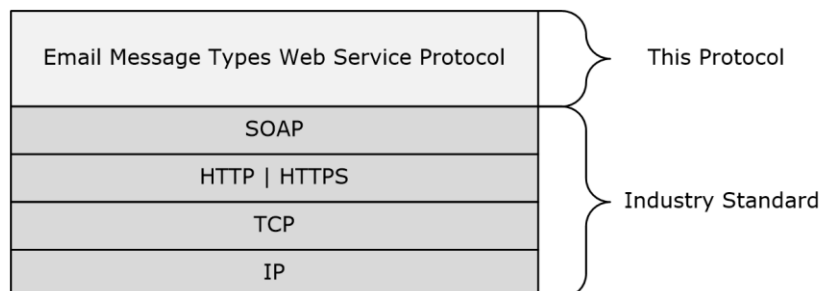
The Email Message Types Web Service Protocol provides clients with the ability to create, get, update, delete, move, copy, and send email messages on the server. Clients create email messages by using the **CreateItem** operation, or they get the properties of an existing task item by using the **GetItem** 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** 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 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 [\[MS-OXDCLI\]](#), is required to form the **HTTP** request to the **web server** that hosts this protocol. The operations that this protocol defines cannot be accessed unless the correct endpoint 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	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
s	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA1]</a>
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
t	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	

#### 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
<b>ApprovalRequestDataType</b> (section <a href="#">2.2.4.1</a> )	Represents an approval request message. <a href="#">&lt;1&gt;</a>
<b>ArrayOfVotingOptionDataType</b> (section <a href="#">2.2.4.2</a> )	Specifies an array of voting options. <a href="#">&lt;2&gt;</a>
<b>MessageType</b> (section <a href="#">2.2.4.3</a> )	Represents a server email message in a user's <b>mailbox</b> .
<b>ReminderMessageDataType</b> (section <a href="#">2.2.4.4</a> )	Specifies a reminder message. <a href="#">&lt;3&gt;</a>
<b>VotingInformationType</b> (section <a href="#">2.2.4.5</a> )	Specifies voting information. <a href="#">&lt;4&gt;</a>
<b>VotingOptionDataType</b> (section <a href="#">2.2.4.6</a> )	Specifies the voting option on a message. <a href="#">&lt;5&gt;</a>

### 2.2.4.1 t:ApprovalRequestDataType Complex Type

The **ApprovalRequestDataType** complex type represents an approval request message. [<6>](#)

```
<xs:complexType name="ApprovalRequestDataType">
  <xs:sequence>
    <xs:element name="IsUndecidedApprovalRequest" type="xs:boolean" minOccurs="0"/>
    <xs:element name="ApprovalDecision" type="xs:int" minOccurs="0"/>
    <xs:element name="ApprovalDecisionMaker" type="xs:string" minOccurs="0"/>
    <xs:element name="ApprovalDecisionTime" type="xs:dateTime" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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

Element	Type	Description
<b>IsUndecidedApprovalRequest</b>	<b>xs:boolean</b> ([XMLSCHEMA2])	A value that indicates whether this approval request is awaiting a moderator to approve or reject the request.
<b>ApprovalDecision</b>	<b>xs:int</b> ([XMLSCHEMA2])	The approval decision on the approval request message.
<b>ApprovalDecisionMaker</b>	<b>xs:string</b> ([XMLSCHEMA2])	The display name of the moderator who approved or rejected the request.
<b>ApprovalDecisionTime</b>	<b>xs:dateTime</b> ([XMLSCHEMA2])	The time at which a moderator approved or rejected the request.

### 2.2.4.2 t:ArrayOfVotingOptionDataType Complex Type

The **ArrayOfVotingOptionDataType** complex type specifies an array of voting options. [<7>](#)

```

<xs:complexType name="ArrayOfVotingOptionDataType">
  <xs:sequence>
    <xs:element name="VotingOptionData" type="t:VotingOptionDataType" minOccurs="0"
maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

```

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

Element	Type	Description
<b>VotingOptionData</b>	<b>t:VotingOptionDataType</b> (section <a href="#">2.2.4.6</a> )	The voting options on a message.

### 2.2.4.3 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 2.2.4.24).

```

<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:element name="ApprovalRequestData"
        type="t:ApprovalRequestDataType"
        minOccurs="0"
      />
      <xs:element name="VotingInformation"
        type="t:VotingInformationType"
        minOccurs="0"
      />
      <xs:element name="ReminderMessageData"
        type="t:ReminderMessageDataType"
        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
<b>Sender</b>	<b>t:SingleRecipientType</b> ([MS-OXWSCDATA] section 2.2.4.71)	Specifies the sender of a message. This element is optional. This is a read/write element.
<b>ToRecipients</b>	<b>t:ArrayOfRecipientsType</b> ([MS-OXWSCDATA] section 2.2.4.11)	Specifies a collection of recipients of an email. This element is required for sending a message. This is a read/write element.
<b>CcRecipients</b>	<b>t:ArrayOfRecipientsType</b>	Specifies a collection of recipients that receive a carbon copy (Cc) of an email. This element is optional. This is a read/write element.
<b>BccRecipients</b>	<b>t:ArrayOfRecipientsType</b>	Specifies a collection of recipients that receive a blind carbon copy (Bcc) of an email. This element is optional. This is a

Element name	Type	Description
		read/write element.
<b>IsReadReceiptRequested</b>	<b>xs:boolean</b> ([XMLSCHEMA2] sec 3.2.2)	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 message.
<b>IsDeliveryReceiptRequested</b>	<b>xs:boolean</b>	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.
<b>ConversationIndex</b>	<b>xs:base64Binary</b> ([XMLSCHEMA2] sec 3.2.16)	Specifies the position of the message within a conversation. This element is optional. This element is read-only.
<b>ConversationTopic</b>	<b>xs:string</b> ([XMLSCHEMA2] sec 3.2.1)	Specifies the subject of the conversation. This element is optional. This element is read-only.
<b>From</b>	<b>t:SingleRecipientType</b>	Specifies the addressee from whom the message was sent. This element is optional. This is a read/write element.
<b>InternetMessageId</b>	<b>xs:string</b>	Specifies the Internet message identifier for the message. This element is optional. This element is read-only.
<b>IsRead</b>	<b>xs:boolean</b>	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.
<b>IsResponseRequested</b>	<b>xs:boolean</b>	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.
<b>References</b>	<b>xs:string</b>	Specifies the Usenet header that is used to correlate replies with their original message. This element is optional. This is a read/write element.
<b>ReplyTo</b>	<b>t:ArrayOfRecipientsType</b>	Specifies a collection of addresses to send replies to. This element is optional. This is a read/write element.
<b>ReceivedBy</b>	<b>t:SingleRecipientType</b>	Identifies the <b>delegate</b> in a <b>delegate access</b> scenario. This element is read-only.
<b>ReceivedRepresenting</b>	<b>t:SingleRecipientType</b>	Identifies the principal in a delegate access scenario. This element is read-only.

Element name	Type	Description
<b>ApprovalRequestData</b>	<b>t:ApprovalRequestDataType</b> (section <a href="#">2.2.4.1</a> )	Specifies the approval state of an approval request message. <a href="#">&lt;8&gt;</a>
<b>VotingInformation</b>	<b>t:VotingInformationType</b> (section <a href="#">2.2.4.5</a> )	Specifies voting information on messages that include voting buttons or voting response messages. <a href="#">&lt;9&gt;</a>
<b>ReminderMessageData</b>	<b>t:ReminderMessageDataType</b> (section <a href="#">2.2.4.4</a> )	Specifies the data in a reminder message. <a href="#">&lt;10&gt;</a>

#### 2.2.4.4 t:ReminderMessageDataType Complex Type

The **ReminderMessageDataType** complex type specifies a reminder message. [<11>](#)

```
<xs:complexType name="ReminderMessageDataType">
  <xs:sequence>
    <xs:element name="ReminderText" type="xs:string" minOccurs="0"/>
    <xs:element name="Location" type="xs:string" minOccurs="0"/>
    <xs:element name="StartTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="EndTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="AssociatedCalendarItemId" type="t:ItemIdType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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

Element	Type	Description
<b>ReminderText</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> )	the reminder message text.
<b>Location</b>	<b>xs:string</b>	The location of the reminder's associated event.
<b>StartTime</b>	<b>xs:dateTime</b> ( <a href="#">[XMLSCHEMA2]</a> )	The start time of the reminder's associated event.
<b>EndTime</b>	<b>xs:dateTime</b>	The end time of the reminder's associated event.
<b>AssociatedCalendarItemId</b>	<b>t:ItemIdType</b> ( <a href="#">[MS-OXWScore]</a> section <a href="#">2.2.4.25</a> )	The item id of the reminder's associated event.

#### 2.2.4.5 t:VotingInformationType Complex Type

The **VotingInformationType** complex type specifies voting information. [<12>](#)

```
<xs:complexType name="VotingInformationType">
  <xs:sequence>
    <xs:element name="UserOptions" type="t:ArrayOfVotingOptionDataType" minOccurs="0"/>
    <xs:element name="VotingResponse" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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

Element	Type	Description
<b>UserOptions</b>	<b>t:ArrayOfVotingOptionDataType</b> (section <a href="#">2.2.4.2</a> )	The list of voting options.
<b>VotingResponse</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> )	The voting response.

### 2.2.4.6 t:VotingOptionDataType Complex Type

The **VotingOptionDataType** complex type specifies the voting option on a message. [<13>](#)

```
<xs:complexType name="VotingOptionDataType">
  <xs:sequence>
    <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
    <xs:element name="SendPrompt" type="t:SendPromptType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

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

Element	Type	Description
<b>DisplayName</b>	<b>xs:string</b> ( <a href="#">[XMLSCHEMA2]</a> )	The display name for the voting choice.
<b>SendPrompt</b>	<b>t:SendPromptType</b> (section <a href="#">2.2.5.2</a> )	Indicates the prompt behavior when the user selects this voting choice.

## 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
<b>MessageDispositionType</b> (section <a href="#">2.2.5.1</a> )	Specifies how a message item is handled after it is created or updated.
<b>SendPromptType</b> (section <a href="#">2.2.5.2</a> )	Specifies the prompt behavior associated with a voting option. <a href="#">&lt;14&gt;</a>

### 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 <b>CreateItemType</b> complex type ( <a href="#">[MS-OXWSCORE]</a> section 3.1.4.2.3.2), the email message item is saved in the folder that is specified by the <b>TargetFolderIdType</b> complex type ( <a href="#">[MS-OXWSFOLD]</a> section 2.2.4.16). Messages can be sent later by using the <b>SendItem</b> operation (section <a href="#">3.1.4.6</a> ) on an <b>ExchangeServiceBinding</b> object. In this case, an item identifier is returned.
SendOnly	When used in the <b>CreateItemType</b> 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 <b>CreateItemType</b> complex type, the email message item is sent and a copy is saved in the <b>TargetFolderIdType</b> complex type. In this case, an item identifier is not returned.

### 2.2.5.2 t:SendPromptType Simple Type

The **SendPromptType** simple type specifies the prompt behavior associated with a voting option. [<15>](#)

```

<xs:simpleType name="SendPromptType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Send"/>
    <xs:enumeration value="VotingOption"/>
  </xs:restriction>
</xs:simpleType>

```

The following table lists the possible values for the **SendPromptType** simple type.

Value	Meaning
<b>None</b>	No prompt behavior is specified.
<b>Send</b>	The response is sent immediately when the user chooses a voting option.
<b>VotingOption</b>	The user is prompted to confirm their choice before sending a response.

## **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
<b>CopyItem</b>	Copies an email message on the server.
<b>CreateItem</b>	Creates email messages on the server.
<b>DeleteItem</b>	Deletes an email message from the server.
<b>GetItem</b>	Gets email messages from the server.
<b>MoveItem</b>	Moves an email message on the server.
<b>SendItem</b>	Sends an email message to the server.
<b>UpdateItem</b>	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 2.2.4.67, of the **CopyItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [MS-OXWSCDATA] section 2.2.4.67, 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 2.2.5.24.

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"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="CreateItemResult" use="literal" />
  </wsdl:output>
</wsdl:operation>

```

```

    <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 2.2.4.67, of the **CreateItemResponseMessage** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [\[MS-OXWSCDATA\]](#) section 2.2.4.67, 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 2.2.5.24.

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 2.2.4.67, of the **DeleteItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified by [MS-OXWSCDATA] section 2.2.4.67, 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 2.2.5.24.

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
<b>ItemShape</b>	Specifies a set of properties to be returned. The child elements for this element are listed in the following table.
<b>ItemIds</b>	Contains the unique identities of items. This element includes the <b>Id</b> attribute, which identifies a specific item in the store, and the <b>ChangeKey</b> 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
<b>BaseShape</b>	Identifies the basic configuration of properties to be returned in an item response. Set

Element name	Description
	this element to <b>IdOnly</b> to return only the item ID, or set it to <b>AllProperties</b> to return all of the properties used by the server to construct a message. This element MUST be present.
<b>IncludeMimeContent</b>	Indicates whether <b>MIME</b> content is included in a returned message or attachment.
<b>BodyType</b>	Indicates whether a message body is returned as HTML.
<b>FilterHtmlContent</b>	Indicates whether to filter unsafe HTML content from a message or attachment.
<b>AdditionalProperties</b>	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 2.2.4.67, of the **GetItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [MS-OXWSCDATA] section 2.2.4.67, 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 2.2.5.24.

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 2.2.4.67, of the **MoveItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [MS-OXWSCDATA] section 2.2.4.67, 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 2.2.5.24.

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>
```

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 2.2.4.67, of the **SendItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [MS-OXWSCDATA] section 2.2.4.67 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 2.2.5.24.



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 2.2.4.67, of the **UpdateItemResponseMessage** element, as specified in [MS-OXWSCDATA] section 2.2.4.12, set to "Success". The **ResponseCode** element, as specified in [MS-OXWSCDATA] section 2.2.4.67, 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 2.2.5.24.

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>
        </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>
  </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 <b>WSDL</b> for the implementation of this protocol.	6
MS-OXWSMSG-types.xsd	Contains the <b>XML schema</b> type definitions used in this protocol.	<a href="#">Z</a>
MS-OXWSCORE-messages.xsd	Contains XML schema message definitions used in this protocol.	<a href="#">[MS-OXWSCORE]</a> section <a href="#">Z.1</a>

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="Exchange2016"
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="Exchange2016"
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:part name="RequestVersion" element="t:RequestServerVersion"/>
  </wsdl:message>
</wsdl:definitions>
```

```

    <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: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	<a href="#">[MS-OXWSMSG]</a> 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="Exchange2016" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSMSG-types.xsd"/>
  <xs:complexType name="ArrayOfVotingOptionDataType">
    <xs:sequence>
      <xs:element name="VotingOptionData" type="t:VotingOptionDataType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ApprovalRequestDataType">
    <xs:sequence>
      <xs:element name="IsUndecidedApprovalRequest" type="xs:boolean" minOccurs="0"/>
      <xs:element name="ApprovalDecision" type="xs:int" minOccurs="0"/>
      <xs:element name="ApprovalDecisionMaker" type="xs:string" minOccurs="0"/>
      <xs:element name="ApprovalDecisionTime" type="xs:dateTime" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <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:element name="ApprovalRequestData" type="t:ApprovalRequestDataType"
minOccurs="0"/>
          <xs:element name="VotingInformation" type="t:VotingInformationType" minOccurs="0"/>
          <xs:element name="ReminderMessageData" type="t:ReminderMessageDataType"
minOccurs="0"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ReminderMessageDataType">
    <xs:sequence>
      <xs:element name="ReminderText" type="xs:string" minOccurs="0"/>
      <xs:element name="Location" type="xs:string" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

```



```

    <xs:element name="StartTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="EndTime" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="AssociatedCalendarItemId" type="t:ItemIdType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="VotingInformationType">
  <xs:sequence>
    <xs:element name="UserOptions" type="t:ArrayOfVotingOptionDataType" minOccurs="0"/>
    <xs:element name="VotingResponse" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="VotingOptionDataType">
  <xs:sequence>
    <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
    <xs:element name="SendPrompt" type="t:SendPromptType" minOccurs="0"/>
  </xs:sequence>
</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:simpleType name="SendPromptType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Send"/>
    <xs:enumeration value="VotingOption"/>
  </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 updates to those products.

- Microsoft Exchange Server 2007
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Exchange Server 2016
- Microsoft Exchange Server 2019

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

<1> [Section 2.2.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ApprovalRequestDataType** complex type. This type was introduced in Microsoft Exchange Server 2013 Service Pack 1 (SP1).

<2> [Section 2.2.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ArrayOfVotingOptionDataType** complex type. This type was introduced in Exchange 2013 SP1.

<3> [Section 2.2.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ReminderMessageDataType** complex type. This type was introduced in Exchange 2013 SP1.

<4> [Section 2.2.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **VotingInformationType** complex type. This type was introduced in Exchange 2013 SP1.

<5> [Section 2.2.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **VotingOptionDataType** complex type. This type was introduced in Exchange 2013 SP1.

<6> [Section 2.2.4.1](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ApprovalRequestDataType** complex type. This type was introduced in Exchange 2013 SP1.

<7> [Section 2.2.4.2](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ArrayOfVotingOptionDataType** complex type. This type was introduced in Exchange 2013 SP1.

<8> [Section 2.2.4.3](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ApprovalRequestData** element. This element was introduced in Exchange 2013 SP1.

<9> [Section 2.2.4.3](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **VotingInformation** element. This element was introduced in Exchange 2013 SP1.

<10> [Section 2.2.4.3](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ReminderMessageData** element. This element was introduced in Exchange 2013 SP1.

<11> [Section 2.2.4.4](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **ReminderMessageDataType** complex type. This type was introduced in Exchange 2013 SP1.

<12> [Section 2.2.4.5](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **VotingInformationType** complex type. This type was introduced in Exchange 2013 SP1.

<13> [Section 2.2.4.6](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **VotingOptionDataType** complex type. This type was introduced in Exchange 2013 SP1.

<14> [Section 2.2.5](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **SendPromptType** simple type. This type was introduced in Exchange 2013 SP1.

<15> [Section 2.2.5.2](#): Exchange 2007, Exchange 2010, and the initial release of Exchange 2013 do not support the **SendPromptType** simple type. This type was introduced in Exchange 2013 SP1.

## 9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

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

- A document revision that incorporates changes to interoperability requirements.
- A document revision that captures changes to protocol functionality.

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

The revision class **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

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

Section	Description	Revision class
<a href="#">8</a> Appendix C: Product Behavior	Updated list of supported products.	Major

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