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## Revision Summary

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# Table of Contents

1 Introduction .................................................................................. 6  
1.1 Glossary .................................................................................. 6  
1.2 References .............................................................................. 7  
  1.2.1 Normative References .......................................................... 7  
  1.2.2 Informative References ......................................................... 8  
1.3 Overview .................................................................................. 8  
1.4 Relationship to Other Protocols .................................................. 8  
1.5 Prerequisites/Preconditions ......................................................... 9  
1.6 Applicability Statement ............................................................. 9  
1.7 Versioning and Capability Negotiation ........................................ 9  
1.8 Vendor-Extensible Fields ........................................................... 9  
1.9 Standards Assignments ................................................................ 10  

2 Messages .................................................................................... 11  
2.1 Transport ................................................................................. 11  
2.2 Common Message Syntax .......................................................... 11  
  2.2.1 Namespaces ........................................................................ 11  
  2.2.2 Messages ........................................................................... 11  
  2.2.3 Elements ............................................................................ 11  
  2.2.4 Complex Types ................................................................... 12  
    2.2.4.1 t:PostItemType Complex Type ..................................... 12  
    2.2.4.2 t:PostReplyItemType Complex Type .............................. 13  
    2.2.4.3 t:PostReplyItemBaseType Complex Type...................... 14  
  2.2.5 Simple Types ....................................................................... 14  
  2.2.6 Attributes .......................................................................... 15  
  2.2.7 Groups .............................................................................. 15  
  2.2.8 Attribute Groups ................................................................ 15  

3 Protocol Details .......................................................................... 16  
3.1 ExchangeServicePortType Server Details .................................. 16  
  3.1.1 Abstract Data Model ............................................................ 16  
  3.1.2 Timers ............................................................................... 16  
  3.1.3 Initialization ........................................................................ 16  
  3.1.4 Message Processing Events and Sequencing Rules ................. 16  
    3.1.4.1 CopyItem Operation ..................................................... 16  
    3.1.4.2 CreateItem Operation .................................................. 17  
    3.1.4.3 DeleteItem Operation .................................................. 18  
    3.1.4.4 GetItem Operation ....................................................... 19  
    3.1.4.5 MoveItem Operation ................................................... 20  
    3.1.4.6 UpdateItem Operation ................................................ 21  
  3.1.5 Timer Events ........................................................................ 22  
  3.1.6 Other Local Events ............................................................. 22  

4 Protocol Examples ...................................................................... 23  
4.1 Copying a Post Object ............................................................... 23  
4.2 Creating a Post Object .............................................................. 23  
4.3 Deleting a Post Object ............................................................... 24  
4.4 Moving a Post Object ............................................................... 25  
4.5 Retrieving a Post Object ........................................................... 25  
4.6 Updating a Post Object ............................................................. 26  

5 Security ....................................................................................... 28  
5.1 Security Considerations for Implementers .................................. 28  
5.2 Index of Security Parameters ................................................... 28  

6 Appendix A: Full WSDL ................................................................ 29
1 Introduction

The Post Items Web Service Protocol enables a client to create, retrieve, update, move, copy, and delete Post objects on the server.

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:

**conversation**: A single representation of a send/response series of email messages. A conversation appears in the Inbox as one unit and allows the user to view and read the series of related email messages in a single effort.

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

**header**: A name-value pair that supplies structured data in an Internet email message or MIME entity.

**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].

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

**Post object**: A Message object that represents an entry in a discussion thread stored in a messaging store.

**public folder**: A Folder object that is stored in a location that is publicly available.

**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 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 namespace prefix**: An abbreviated form of an **XML namespace**, as described in [XML].

**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. We will assist you in finding the relevant information.


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

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


1.3 Overview

This protocol enables clients to create, retrieve, update, move, copy, and delete Post objects on the server. Clients can use the data types and operations described by this protocol to manage post items.

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

This protocol can use the item identifier(s) returned by the Mailbox Search Web Service Protocol, as described in [MS-OXWSSRCH], to access Post objects on the server.

This protocol uses operations that are described in [MS-OXWSCORE] to retrieve, delete, update, move, copy, and create Post objects on the server. For more information about these operations, see section 3.1.4.

This protocol uses SOAP over HTTP, as described in [RFC2616], and SOAP over HTTPS, as described in [RFC2818], as shown in the following layering diagram.
1.5 Prerequisites/Preconditions

The endpoint Uniform Resource Locator (URL) that is returned by either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol, as specified in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, specified in [MS-OXDSCLIT], is required to form the HTTP request to the Web server that hosts this protocol. To retrieve the endpoint as described in either the Autodiscover Publishing Lookup SOAP-Based Web Service Protocol or the Autodiscover Publishing and Lookup Protocol, the client needs to have a valid mail-enabled account. The operations that this protocol defines cannot be accessed unless the correct endpoint is identified in the HTTP Web requests that target this protocol.

1.6 Applicability Statement

This protocol is applicable to client programs that create, move, copy, modify, delete, or retrieve Post objects in the server message store.

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 and in [SOAP1.1].
- **Protocol Versions:** This protocol specifies only one WSDL port type version. The WSDL version of the request is identified by using the 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 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 specified 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

Messages are transported by using SOAP version 1.1, as specified in [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], and SHOULD support SOAP over HTTPS, as specified in [RFC2818].

2.2 Common Message Syntax

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

2.2.1 Namespaces

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

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<th>Namespace URI</th>
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</table>

2.2.2 Messages

This specification does not define any common WSDL message definitions.

2.2.3 Elements

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

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

<table>
<thead>
<tr>
<th>Complex type name</th>
<th>Description</th>
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<tr>
<td>PostItemType</td>
<td>Represents a Post object in a server message store.</td>
</tr>
<tr>
<td>PostReplyItemBaseType</td>
<td>Represents the base type for the PostReplyItemType complex type.</td>
</tr>
<tr>
<td>PostReplyItemType</td>
<td>Contains a reply to a Post object.</td>
</tr>
</tbody>
</table>

2.2.4.1 t:PostItemType Complex Type

The PostItemType complex type represents a Post object in a server message store. The PostItemType complex type extends the ItemType complex type, as specified in [MS-OXWSCORE] section 2.2.4.24.

```xml
<xs:complexType name="PostItemType">
  <xs:complexContent>
    <xs:extension base="t:ItemType">
      <xs:sequence>
        <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="PostedTime" type="xs:dateTime" minOccurs="0" />
        <xs:element name="References" type="xs:string" minOccurs="0" />
        <xs:element name="Sender" type="t:SingleRecipientType" minOccurs="0" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```
The following table lists the child elements of the PostItemType complex type.

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConversationIndex</td>
<td>xs:base64Binary</td>
<td>Contains a binary ID that represents the thread to which this Post object belongs.</td>
</tr>
<tr>
<td>ConversationTopic</td>
<td>xs:string</td>
<td>Represents the conversation identifier.</td>
</tr>
<tr>
<td>From</td>
<td>t:SingleRecipientType</td>
<td>Represents the address from which the Post object is sent, and can only be set at creation time.</td>
</tr>
<tr>
<td>InternetMessageId</td>
<td>xs:string</td>
<td>Represents the Internet message identifier, as specified in [RFC2822], of the Post object.</td>
</tr>
<tr>
<td>IsRead</td>
<td>xs:boolean</td>
<td>Indicates whether the Post object has been read.</td>
</tr>
<tr>
<td>PostedTime</td>
<td>xs:dateTime</td>
<td>Represents the time at which a Post object is posted. This element is read-only.</td>
</tr>
<tr>
<td>References</td>
<td>xs:string</td>
<td>Represents the USENET header, as specified in [RFC850], that is used to associate replies with the Post object.</td>
</tr>
<tr>
<td>Sender</td>
<td>t:SingleRecipientType</td>
<td>Identifies the sender of the Post object, and can only be set at creation time.</td>
</tr>
</tbody>
</table>

2.2.4.2 t:PostReplyItemBaseType Complex Type

The PostReplyItemBaseType complex type is the base type for the PostReplyItemType type, as specified in section 2.2.4.3. The PostReplyItemBaseType complex type extends the ResponseObjectType complex type, as specified in [MS-OXWSCDATA] section 2.2.4.69.

```xml
<xs:complexType name="t:PostReplyItemBaseType">
  <xs:complexContent>
    <xs:restriction base="t:ResponseObjectType">
      <xs:sequence>
        <xs:element name="Subject" type="xs:string" minOccurs="0"/>
        <xs:element name="Body" type="t:BodyType" minOccurs="0"/>
        <xs:element name="ReferenceItemId" type="t:ItemIdType" minOccurs="0"/>
      </xs:sequence>
      <xs:attribute name="ObjectName" type="xs:string" use="prohibited"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```
The following table lists the child elements of the **PostReplyItemBaseType** complex type.

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>xs:string ([XMLSCHEMA2])</td>
<td>Represents the subject of the <strong>Post object</strong>. The value of the Subject element is limited to 255 characters. Values larger than 255 characters are truncated to the first 252 characters. Three '.' characters are appended to the resulting truncated value.</td>
</tr>
<tr>
<td>Body</td>
<td>t:BodyType ([MS-OXWSCDATA] section 2.2.4.19)</td>
<td>Represents the body content of the Post object.</td>
</tr>
<tr>
<td>ReferenceItemId</td>
<td>t:ItemIdType ([MS-OXWSCORE] section 2.2.4.25)</td>
<td>Identifies the Post object to which the response refers. This element MUST be present.</td>
</tr>
</tbody>
</table>

The following table lists the attribute of the **PostReplyItemBaseType** complex type.

<table>
<thead>
<tr>
<th>Attribute name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectName</td>
<td>xs:string ([XMLSCHEMA2])</td>
<td>Represents the name of an object. This name depends on the actual resource accessed.</td>
</tr>
</tbody>
</table>

### 2.2.4.3 t:PostReplyItemType Complex Type

The **PostReplyItemType** complex type contains a reply to a **Post object**. The **PostReplyItemType** complex type extends the **PostReplyItemBaseType** complex type, as specified in section 2.2.4.2.

```xml
<xs:complexType>
  <xs:complexContent>
    <xs:extension base="t:PostReplyItemBaseType">
      <xs:sequence>
        <xs:element name="NewBodyContent" type="t:BodyType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

<table>
<thead>
<tr>
<th>Element name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NewBodyContent</td>
<td>t:BodyType ([MS-OXWSCDATA] section 2.2.4.19)</td>
<td>Represents the new body content of a Post object.</td>
</tr>
</tbody>
</table>

### 2.2.5 Simple Types

This specification does not define any common **XML schema** simple type definitions.
2.2.6 Attributes
This specification does not define any common XML schema attribute definitions.

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

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

This protocol defines a single port type and uses six operations that are specified in [MS-OXWSCORE]. These operations enable client implementations to create, retrieve, update, move, copy, and delete Post objects on the server.

3.1.1 Abstract Data Model

None.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

<table>
<thead>
<tr>
<th>Operation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CopyItem</td>
<td>Copies Post objects on the server.</td>
</tr>
<tr>
<td>CreateItem</td>
<td>Creates Post objects on the server.</td>
</tr>
<tr>
<td>DeleteItem</td>
<td>Deletes Post objects on the server.</td>
</tr>
<tr>
<td>GetItem</td>
<td>Retrieves Post objects from the server.</td>
</tr>
<tr>
<td>MoveItem</td>
<td>Moves Post objects on the server.</td>
</tr>
<tr>
<td>UpdateItem</td>
<td>Updates Post objects on the server.</td>
</tr>
</tbody>
</table>

3.1.4.1 CopyItem Operation

The CopyItem operation copies Post objects on the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.1.

The following is the WSDL port type specification for the CopyItem operation.

```xml
<wSDL:operation name="CopyItem">
  <wSDL:input message="tns:CopyItemSoapIn" />
  <wSDL:output message="tns:CopyItemSoapOut" />
</wSDL:operation>
```
The following is the **WSDL** binding specification for the **CopyItem** operation.

```xml
<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"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body parts="CopyItemResult" use="literal"/>
    <soap:header message="tns:CopyItemSoapOut" part="ServerVersion" use="literal"/>
  </wsdl:output>
</wsdl:operation>
```

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

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CopyItemSoapIn</strong></td>
<td>The <strong>CopyItemSoapIn</strong> message is specified in [MS-OXWSCORE] section 3.1.4.1.1.1. It specifies the <strong>CopyItem</strong> operation request to copy one or more Post objects on the server. The <strong>CopyItem</strong> element ([MS-OXWSCORE] section 3.1.4.1.2.1) that specifies the XML request MUST contain the following child elements: <strong>ToFolderId</strong> ([MS-OXWSCORE] section 2.2.4.16) <strong>ItemIds</strong> ([MS-OXWSCORE] section 2.2.4.16) The <strong>ItemIds</strong> element MUST contain one or more <strong>ItemId</strong> child elements ([MS-OXWSCORE] section 2.2.4.31), each one having an <strong>Id</strong> attribute ([MS-OXWSCORE] section 2.2.4.25) that identifies a Post object. The <strong>ItemIds</strong> element MUST NOT contain an <strong>OccurrenceId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) or a <strong>RecurringMasterItemId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) in a request to copy a Post object.</td>
</tr>
<tr>
<td><strong>CopyItemSoapOut</strong></td>
<td>The <strong>CopyItemSoapOut</strong> message is specified in [MS-OXWSCORE] section 3.1.4.1.1.2. It specifies the server response to the <strong>CopyItem</strong> operation request. In the response message, the <strong>Items</strong> element ([MS-OXWSCDATA] section 2.2.4.43) contains one or more <strong>PostItem</strong> elements of type <strong>PostItemType</strong> (section 2.2.4.1).</td>
</tr>
</tbody>
</table>

The client sends a **tns:CopyItemSoapIn** request WSDL message and the server MUST respond with a **tns:CopyItemSoapOut** response WSDL message.

### 3.1.4.2 CreateItem Operation

The **CreateItem** operation creates **Post objects** on the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.2.

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

```xml
<wSDL:operation name="CreateItem">
  <wsdl:input message="tns:CreateItemSoapIn" />
  <wsdl:output message="tns:CreateItemSoapOut" />
</wsdl:operation>
```
The following is the **WSDL** binding specification for the **CreateItem** operation.

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

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

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CreateItemSoapIn</strong></td>
<td>The <strong>CreateItemSoapIn</strong> message is specified in [MS-OXWSCORE] section 3.1.4.1.1.1. It specifies the <strong>CreateItem</strong> operation request to create one or more Post objects on the server. The <strong>Items</strong> child element ([MS-OXWSCDATA] section 2.2.4.48) of the <strong>CreateItem</strong> element ([MS-OXWSCORE] section 3.1.4.2.1) that specifies the XML request MUST contain one or more <strong>PostItem</strong> elements ([MS-OXWSCDATA] section 2.2.4.48) or <strong>PostReplyItem</strong> elements ([MS-OXWSCDATA] section 2.2.4.48). The post item MUST NOT be created in the following folders: Calendar folder, Contacts folder, Tasks folder, Notes folder, Journal folder, Search folder, and Outlook Search folder. Otherwise, the server MUST return an <strong>ErrorCannotCreatePostItemInNonMailFolder</strong> response code, as specified in [MS-OXWSCDATA] section 2.2.5.23.</td>
</tr>
</tbody>
</table>

1. **CreateItemSoapOut**    | The **CreateItemSoapOut** message is specified in [MS-OXWSCORE] section 3.1.4.2.1.2. It specifies the server response to the **CreateItem** operation request. In the response message, the **Items** element ([MS-OXWSCDATA] section 2.2.4.43) contains one or more **PostItem** elements ([MS-OXWSCDATA] section 2.2.4.10). |

The client sends a **tns:CreateItemSoapIn** request WSDL message and the server MUST respond with a **tns:CreateItemSoapOut** response WSDL message.

**3.1.4.3 DeleteItem Operation**

The **DeleteItem** operation deletes **Post objects** on the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.3.

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

```xml
<wSDL:operation name="DeleteItem">
  <wSDL:input message="tns:DeleteItemSoapIn" />  
  <wSDL:output message="tns:DeleteItemSoapOut" />  
</wSDL:operation>
```
The following is the WSDL binding specification for the **DeleteItem** operation.

```xml
<wsdl:operation name="DeleteItem">
  <soap:operation
  <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 following table summarizes the set of **WSDL message** definitions that are specific to the **DeleteItem** operation.

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DeleteItemSoapIn</strong></td>
<td>The <strong>DeleteItemSoapIn</strong> message is specified in [MS-OXWSCORE] section 3.1.4.3.1.1. It specifies the <strong>DeleteItem</strong> operation request to delete one or more Post objects on the server. The <strong>DeleteItem</strong> element ([MS-OXWSCORE] section 3.1.4.3.2.1) that specifies the XML request MUST contain the <strong>ItemIds</strong> child element ([MS-OXWSCORE] section 3.1.4.3.3.2). The <strong>ItemIds</strong> element MUST contain one or more <strong>ItemId</strong> child elements ([MS-OXWSCORE] section 2.2.4.31), each one having an <strong>Id</strong> attribute ([MS-OXWSCORE] section 2.2.4.25) that identifies a Post object. The <strong>ItemIds</strong> element MUST NOT contain an <strong>OccurrenceId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) or a <strong>RecurringMasterItemId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) in a request to delete a Post object.</td>
</tr>
<tr>
<td><strong>DeleteItemSoapOut</strong></td>
<td>The <strong>DeleteItemSoapOut</strong> message is specified in [MS-OXWSCORE] section 3.1.4.3.1.2. It specifies the server response to the <strong>DeleteItem</strong> operation request.</td>
</tr>
</tbody>
</table>

The client sends a **tns:DeleteItemSoapIn** request WSDL message and the server MUST respond with a **tns:DeleteItemSoapOut** response WSDL message.

### 3.1.4.4 GetItem Operation

The **GetItem** operation retrieves **Post objects** from the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.4.

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

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

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

```xml
<wsdl:operation name="GetItem">
  <soap:operation
  <wsdl:input>
```
The following table summarizes the set of **WSDL message** definitions that are specific to the **GetItem** operation.

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetItemSoapIn</td>
<td>The <strong>GetItemSoapIn</strong> message is specified in [MS-OXWSCORE] section 3.1.4.4.1.1. It specifies the <strong>GetItem</strong> operation request to retrieve one or more Post objects from the server.</td>
</tr>
<tr>
<td></td>
<td>The <strong>GetItem</strong> element ([MS-OXWSCORE] section 3.1.4.4.2.1) that specifies the XML request MUST contain the following child elements:</td>
</tr>
<tr>
<td>ItemShape</td>
<td>( [MS-OXWSCORE] section 3.1.4.4.3.2)</td>
</tr>
<tr>
<td>ItemIds</td>
<td>( [MS-OXWSCORE] section 3.1.4.4.3.2)</td>
</tr>
<tr>
<td></td>
<td>The <strong>ItemIds</strong> element MUST contain one or more <strong>ItemId</strong> child elements ([MS-OXWSCORE] section 2.2.4.31), each one having an <strong>Id</strong> attribute ([MS-OXWSCORE] section 2.2.4.25) that identifies a Post object.</td>
</tr>
<tr>
<td></td>
<td>The <strong>ItemIds</strong> element MUST NOT contain an <strong>OccurrenceId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) or a <strong>RecurringMasterItemId</strong> child element ([MS-OXWSCORE] section 2.2.4.31) in a request to retrieve a Post object.</td>
</tr>
<tr>
<td>GetItemSoapOut</td>
<td>The <strong>GetItemSoapOut</strong> message is specified in [MS-OXWSCORE] section 3.1.4.4.1.2. It specifies the server response to the <strong>GetItem</strong> operation request.</td>
</tr>
<tr>
<td></td>
<td>In the response message, the <strong>Items</strong> element ([MS-OXWSCDATA] section 2.2.4.43) contains one or more <strong>PostItem</strong> elements of type <strong>PostItemType</strong> (section 2.2.4.1).</td>
</tr>
</tbody>
</table>

The client sends a **tns:GetItemSoapIn** request WSDL message and the server MUST respond with a **tns:GetItemSoapOut** response WSDL message.

### 3.1.4.5 MoveItem Operation

The **MoveItem** operation moves **Post objects** on the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.7.

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

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

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

```xml
<wsdl:operation name="MoveItem">
</wsdl:operation>
```
<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>

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

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MoveItemSoapIn</td>
<td>The MoveItemSoapIn message is specified in [MS-OXWSCORE] section 3.1.4.7.1.1. It specifies the MoveItem operation request to move one or more Post objects on the server.</td>
</tr>
<tr>
<td></td>
<td>The MoveItem element ([MS-OXWSCORE] section 3.1.4.7.2.1) that specifies the XML request MUST contain the following child elements: ToFolderId ([MS-OXWSCORE] section 2.2.4.16) ItemIds ([MS-OXWSCORE] section 2.2.4.16)</td>
</tr>
<tr>
<td></td>
<td>The ItemIds element MUST contain one or more ItemId child elements ([MS-OXWSCORE] section 2.2.4.31), each one having an Id attribute ([MS-OXWSCORE] section 2.2.4.25) that identifies a Post object.</td>
</tr>
<tr>
<td></td>
<td>The ItemIds element MUST NOT contain an OccurrenceId child element ([MS-OXWSCORE] section 2.2.4.31) or a RecurringMasterItemId child element ([MS-OXWSCORE] section 2.2.4.31) in a request to move a Post object.</td>
</tr>
<tr>
<td>MoveItemSoapOut</td>
<td>The MoveItemSoapOut message is specified in [MS-OXWSCORE] section 3.1.4.7.1.2. It specifies the server response to the MoveItem operation request. In the response message, the Items element ([MS-OXWSCDATA] section 2.2.4.43) contains one or more PostItem elements of type PostItemType (section 2.2.4.1).</td>
</tr>
</tbody>
</table>

The client sends a tns:MoveItemSoapIn request WSDL message and the server MUST respond with a tns:MoveItemSoapOut response WSDL message.

3.1.4.6 UpdateItem Operation

The UpdateItem operation updates Post objects on the server. This operation is specified in [MS-OXWSCORE] section 3.1.4.9.

The following is the WSDL port type specification for the UpdateItem operation.

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

The following is the WSDL binding specification for the UpdateItem operation.

```xml
<wsdl:operation name="UpdateItem">
  <soap:operation
  <wsdl:input>
    <soap:header message="tns:UpdateItemSoapIn" part="Impersonation" use="literal"/>
```
The following table summarizes the set of WSDL message definitions that are specific to the
UpdateItem operation.

<table>
<thead>
<tr>
<th>Message name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UpdateItemSoapIn</strong></td>
<td>The <strong>UpdateItemSoapIn</strong> message is specified in [MS-OXWSCORE] section 3.1.4.9.1.1. It specifies the <strong>UpdateItem</strong> operation request to update one or more Post objects on the server. The <strong>UpdateItem</strong> element ([MS-OXWSCORE] section 3.1.4.9.2.1) that specifies the XML request MUST contain an <strong>ItemChanges</strong> element ([MS-OXWSCORE] section 3.1.4.9.3.2) that contains one or more <strong>ItemChange</strong> elements ([MS-OXWSCORE] section 3.1.4.9.3.9). Each <strong>ItemChange</strong> element MUST contain an <strong>ItemId</strong> child element ([MS-OXWSCORE] section 3.1.4.9.3.7) with an <strong>Id</strong> attribute ([MS-OXWSCORE] section 2.2.4.25) that identifies the Post object. An <strong>ItemChange</strong> element MUST NOT contain an <strong>OccurrenceId</strong> child element ([MS-OXWSCORE] section 3.1.4.9.3.7) or a <strong>RecurringMasterItemId</strong> child element ([MS-OXWSCORE] section 3.1.4.9.3.7) for a change to a Post object. Each <strong>AppendToItemField</strong> element ([MS-OXWSCORE] section 3.1.4.9.3.8) and <strong>SetItemField</strong> element ([MS-OXWSCORE] section 3.1.4.9.3.8) in the request MUST contain a <strong>PostItem</strong> element of type <strong>PostItemType</strong> (section 2.2.4.1).</td>
</tr>
<tr>
<td><strong>UpdateItemSoapOut</strong></td>
<td>The <strong>UpdateItemSoapOut</strong> message is specified in [MS-OXWSCORE] section 3.1.4.9.1.2. It specifies the server response to the <strong>UpdateItem</strong> operation request. In the response message, the <strong>Items</strong> element ([MS-OXWSCDATA] section 2.2.4.43) contains one or more <strong>PostItem</strong> elements of type <strong>PostItemType</strong>.</td>
</tr>
</tbody>
</table>

The client sends a **tns:UpdateItemSoapIn** request **WSDL message** and the server MUST respond with a **tns:UpdateItemSoapOut** response WSDL message.

### 3.1.5 Timer Events

None.

### 3.1.6 Other Local Events

None.
4  Protocol Examples

In the following examples, Jason Carlson is using a protocol client to manage *Post objects* in a *public folder* named "Announcements". Jason’s company holds a company-wide meeting every three months, and Jason wants to announce the dates for the meetings in this public folder.

4.1  Copying a Post Object

In this scenario, Jason wants to create a copy of the *Post object* that he created for the July 22 meeting so that he can later modify it to announce the next company meeting on October 21.

The following is the client request to copy the Post object.

```xml
<CopyItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ToFolderId xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <FolderId Id="AQEuAAADGkRzkKpmEc2byACqAC/EWqMAtzcigtvmvEGtSfqReMVLgABEfqpawAAAA=" ChangeKey="AQAAABYAAAC3NyKq2+a8Q4alJ+pF4xUuAAER+pqp"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ToFolderId>
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxPoFAlEc3Iqrb5xDrhUn6kXjFS4AARRh6mcqAAAA=" ChangeKey="FgAAAA=" xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ItemIds>
  <ReturnNewItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">true</ReturnNewItemIds>
</CopyItemType>
```

The following is the server response.

```xml
<CopyItemResponseType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <CopyItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxPoFAlEc3Iqrb5xDrhUn6kXjFS4AARRh6mcqAAAA=" ChangeKey="FgAAAA=" xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
        </PostItem>
      </Items>
    </CopyItemResponseMessage>
  </ResponseMessages>
</CopyItemResponseType>
```

4.2  Creating a Post Object

In this scenario, Jason wants to create a new *Post object* to announce the upcoming company meeting on July 22.

The following is the client request to create a new Post object.

```xml
<CopyItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <FolderId Id="AQEuAAADGkRzkKpmEc2byACqAC/EWqMAtzcigtvmvEGtSfqReMVLgABEfqpawAAAA=" ChangeKey="AQAAABYAAAC3NyKq2+a8Q4alJ+pF4xUuAAER+pqp"
    xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxPoFAlEc3Iqrb5xDrhUn6kXjFS4AARRh6mcqAAAA=" ChangeKey="FgAAAA=" xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ItemIds>
  <ReturnNewItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">true</ReturnNewItemIds>
</CopyItemType>
```

```xml
<CopyItemResponseType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <CopyItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxPoFAlEc3Iqrb5xDrhUn6kXjFS4AARRh6mcqAAAA=" ChangeKey="FgAAAA=" xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
        </PostItem>
      </Items>
    </CopyItemResponseMessage>
  </ResponseMessages>
</CopyItemResponseType>
```
The following is the server response.

```xml
<?xml version="1.0" encoding="utf-16"?>
<CreateItemResponseType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <CreateItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIAAgAAAggeh8xdkxG075BYgAqgAvxFoJACe3lFlb5rxDhrUn6kXjFS4AARH6mqcAAA=" ChangeKey="FQAAABYAAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py4" />
        </PostItem>
      </Items>
    </CreateItemResponseMessage>
  </ResponseMessages>
</CreateItemResponseType>
```

4.3 Deleting a Post Object

In this scenario, Jason wants to delete the Post object from the "Archive" public folder.

The following is the client request to delete the Post object.

```xml
<?xml version="1.0" encoding="utf-16"?>
<DeleteItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" DeleteType="HardDelete">
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId Id="AQIAAgAAAggeh8xdkxG075BYgAqgAvxFoJACe3lFlb5rxDhrUn6kXjFS4AARH6mqcAAA=" ChangeKey="FQAAABYAAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+qDG" />
  </ItemIds>
</DeleteItemType>
```

The following is the server response.

```xml
<?xml version="1.0" encoding="utf-16"?>
```
4.4 Moving a Post Object

In this scenario, Jason wants to move the Post object announcing the July 22 meeting to a public folder named "Archive".

The following is the client request to move the Post object.

```xml
<?xml version="1.0" encoding="utf-16"?>
<MoveItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ToFolderId xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <Folder Id="AQEuAAADGkRzkKpmEc2byACqAC/EWgMAtzciqtvmvVGtSfOgADEfqqgAAAA==" ChangeKey="AQAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAEER+p6w"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ToFolderId>
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAAxPBe5CqZHNNm8gAqgAvxFoDALC3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAAA==" ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAEER+p6w"
      xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ItemIds>
  <ReturnNewItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">true</ReturnNewItemIds>
</MoveItemType>
```

The following is the server response.

```xml
<?xml version="1.0" encoding="utf-16"?>
<MoveItemResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <MoveItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAAxPBe5CqZHNNm8gAqgAvxFoDALC3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAAA==" ChangeKey="FgAAAA==" />
        </PostItem>
      </Items>
    </MoveItemResponseMessage>
  </ResponseMessages>
</MoveItemResponseType>
```

4.5 Retrieving a Post Object

In this scenario, Jason wants to view the new Post object that he just created to make sure that there are no errors.

The following is the client request to retrieve the Post object from the server.

```xml
<?xml version="1.0" encoding="utf-16"?>
<MoveItemResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <MoveItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAAxPBe5CqZHNNm8gAqgAvxFoDALC3Iqrb5rxDhrUn6kXjFS4AAPAH6mpgAAAA==" ChangeKey="FgAAAA==" />
        </PostItem>
      </Items>
    </MoveItemResponseMessage>
  </ResponseMessages>
</MoveItemResponseType>
```
The following is the server response.

```xml
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <GetItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAAC3NyKq2+a8Q4a1J+pF4xUuA AER+pqvAALlAxpEc5CqZhMNm8gAqgAvxFoDAlc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA=" ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py4" />
          <Subject>Company meeting scheduled for July 22</Subject>
          <HasAttachments>false</HasAttachments>
          <ConversationIndex>AcxcN9djfXVXymjrQSGXSyVFdhtJJA==</ConversationIndex>
          <ConversationTopic>Company meeting scheduled for July 22</ConversationTopic>
          <From>
            <Mailbox>
              <Name>Jason Carlson</Name>
              <EmailAddress>jason@contoso.com</EmailAddress>
              <RoutingType>SMTP</RoutingType>
              <MailboxType>Mailbox</MailboxType>
            </Mailbox>
          </From>
          <InternetMessageId>&lt;B73722AADBE6BC4386B527EA45E3152E0111FA9E8E014MBX.contoso.com&gt;</InternetMessageId>
          <PostedTime>2011-08-16T17:13:39Z</PostedTime>
          <Sender>
            <Mailbox>
              <Name>Jason Carlson</Name>
              <EmailAddress>jason@contoso.com</EmailAddress>
              <RoutingType>SMTP</RoutingType>
              <MailboxType>Mailbox</MailboxType>
            </Mailbox>
          </Sender>
        </PostItem>
      </Items>
    </GetItemResponseMessage>
  </ResponseMessages>
</GetItemResponse>
```

4.6 Updating a Post Object

In this scenario, Jason wants to update the copy of the original Post object that was created in the example in section 4.1 to announce the next company meeting on October 21.
The following is the client request to update the Post object.

```xml
<?xml version="1.0" encoding="utf-16"?>
  <ItemChanges xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemChange xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxfOjAALc31qrb5rxDrhUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuAAEER+pqyAAlAApAApAx5Cq2HNM8gAqgAvxfOc1ALc3qrb5rxDrhUn6kXjFS4AARH6mqcAAAA=" ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAEER+py4" />
      <Updates>
        <SetItemField>
          <FieldURI FieldURI="item:Subject" />
          <PostItem>
            <Subject>Company meeting scheduled for October 21</Subject>
          </PostItem>
        </SetItemField>
      </Updates>
    </ItemChange>
  </ItemChanges>
</UpdateItemType>
```

The following is the server response.

```xml
<?xml version="1.0" encoding="utf-16"?>
<UpdateItemResponseType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ResponseMessages xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <UpdateItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxfOjAALc31qrb5rxDrhUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuAAEER+pqyAAlAApAApAx5Cq2HNM8gAqgAvxfOc1ALc3qrb5rxDrhUn6kXjFS4AARH6mqcAAAA=" ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAEER+py6" />
        </PostItem>
      </Items>
      <ConflictResults>
        <Count xmlns="http://schemas.microsoft.com/exchange/services/2006/types">0</Count>
      </ConflictResults>
    </UpdateItemResponseMessage>
  </ResponseMessages>
</UpdateItemResponseType>
```
5 Security

5.1 Security Considerations for Implementers
None.

5.2 Index of Security Parameters
None.
6 Appendix A: Full WSDL

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

<table>
<thead>
<tr>
<th>File name</th>
<th>Description</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-OXWSPOST.wsdl</td>
<td>Contains the WSDL for the implementation of this protocol.</td>
<td>6</td>
</tr>
<tr>
<td>MS-OXWSCORE-messages.xsd</td>
<td>Contains the XML schema message definitions that are used in this protocol.</td>
<td>[MS-OXWSCORE] section 7.1</td>
</tr>
<tr>
<td>MS-OXWSPOST-types.xsd</td>
<td>Contains the XML schema type definitions that are used in this protocol.</td>
<td>7.2</td>
</tr>
</tbody>
</table>

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-OXWSPOST-types.xsd or MS-OXWSCORE-messages.xsd schemas have to be placed in the common folder with these files.

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

```xml
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/">
  <wsdl:include schemaLocation="MS-OXWSSCORE-messages.xsd"/>
  <!-- Add global elements and types from messages.xsd -->
</wsdl:types>
<wsdl:types>
  <wsdl:schema id="messages" elementFormDefault="qualified" version="Exchange2016" targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"/>
  <wsdl:include schemaLocation="MS-OXWSSCORE-messages.xsd"/>
  <!-- Add global elements and types from types.xsd -->
</wsdl:types>
<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="CreateItemSoapIn">
  <wsdl:part name="request" element="tns:CreateItem"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
</wsdl:message>
```
<wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
<wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
</wsdl:message>
<wsdl:message name="CreateItemSoapOut">
<wsdl:part name="CreateItemResult" element="tns:CreateItemResponse"/>
<wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="DeleteItemSoapIn">
<wsdl:part name="request" element="tns:DeleteItem"/>
<wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
<wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
<wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="DeleteItemSoapOut">
<wsdl:part name="DeleteItemResult" element="tns:DeleteItemResponse"/>
<wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="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: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="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:portType name="ExchangeServicePortType">
<wsdl:operation name="GetItem">
<wsdl:input message="tns:GetItemSoapIn"/>
<wsdl:output message="tns:GetItemSoapOut"/>
</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="UpdateItem">
<wsdl:input message="tns:UpdateItemSoapIn"/>
<wsdl:output message="tns:UpdateItemSoapOut"/>
</wsdl:operation>
<wsdl:operation name="MoveItem">
<wsdl:input message="tns:MoveItemSoapIn"/>
<wsdl:output message="tns:MoveItemSoapOut"/>
</wsdl:operation>
<wsdl:operation name="CopyItem">
<wsdl:input message="tns:CopyItemSoapIn"/>
<wsdl:output message="tns:CopyItemSoapOut"/>
</wsdl:operation>
</wsdl:portType>
<wsdl:operation name="CopyItem">
  <wsdl:input message="tns:CopyItemSoapIn"/>
  <wsdl:output message="tns:CopyItemSoapOut"/>
</wsdl:operation>
</wsdl:portType>

<wsdl:binding name="ExchangeServiceBinding" type="tns:ExchangeServicePortType">
  <wsdl:documentation>
    <wsi:Claim conformsTo="http://ws-i.org/profiles/basic/1.0" xmlns:wsi="http://ws-i.org/schemas/conformanceClaim"/>
  </wsdl:documentation>
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="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:header message="tns:GetItemSoapIn" part="DateTimePrecision" use="literal"/>
      <soap:header message="tns:GetItemSoapIn" part="ManagementRole" 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="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">
    <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="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"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<soap:header message="tns:UpdateItemSoapOut" part="ServerVersion" use="literal"/>
</wsdl:operation>
</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="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:binding>
</wsdl:definitions>
7 Appendix B: Full XML Schema

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

<table>
<thead>
<tr>
<th>Schema name</th>
<th>Prefix</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages schema</td>
<td>m:</td>
<td>[MS-OXWSCORE] section 7.1</td>
</tr>
<tr>
<td>Types schema</td>
<td>t:</td>
<td>7.2</td>
</tr>
</tbody>
</table>

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

7.1 Messages Schema

This protocol uses the XML schema message definitions in MS-OXWSCORE-messages.xsd, as described in [MS-OXWSCORE] section 7.1.

7.2 Types Schema

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

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

<table>
<thead>
<tr>
<th>File name</th>
<th>Defining specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS-OXWSCORE-types.xsd</td>
<td>[MS-OXWSCORE] section 7.2</td>
</tr>
</tbody>
</table>

```xml
<?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:include schemaLocation="MS-OXWSCORE-types.xsd"/>
  <xs:complexType name="PostItemType">
    <xs:complexContent>
      <xs:extension base="t:ItemType">
        <xs:sequence>
          <xs:element name="ConversationIndex" type="xs:base64Binary" minOccurs="0"/>
          <xs:element name="ConversationTopic" type="xs:string" minOccurs="0"/>
          <!-- From property can only be set at creation time -->
          <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" />
          <!-- PostedTime is read only -->
          <xs:element name="PostedTime" type="xs:dateTime" minOccurs="0"/>
          <xs:element name="References" type="xs:string" minOccurs="0" />
          <!-- Sender can only be set at creation time -->
          <xs:element name="Sender" type="t:SingleRecipientType" minOccurs="0"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:schema>
```
<xs:complexType name="PostReplyItemBaseType">
  <xs:complexContent>
    <xs:restriction base="t:ResponseObjectType">
      <xs:sequence>
        <xs:element name="Subject" type="xs:string" minOccurs="0" />
        <xs:element name="Body" type="t:BodyType" minOccurs="0" />
        <xs:element name="ReferenceItemId" type="t:ItemIdType" minOccurs="0" />
      </xs:sequence>
      <xs:attribute name="ObjectName" type="xs:string" use="prohibited" />
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="PostReplyItemType">
  <xs:complexContent>
    <xs:extension base="t:PostReplyItemBaseType">
      <xs:sequence>
        <xs:element name="NewBodyContent" type="t:BodyType" minOccurs="0" />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
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 Service Pack 1 (SP1)
- 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.
9 Change Tracking

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

A
Abstract data model
   server 16
Applicability 9
Attribute groups 15
Attributes 15

C
Capability negotiation 9
Change tracking 36
Complex types 12
t:PostItemType Complex Type 12
t:PostReplyItemBaseType Complex Type 13
t:PostReplyItemType Complex Type 14
Copying a Post object example 23
Creating a Post object example 23

D
Data model - abstract
   server 16
Deleting a Post object example 24

E
Events
   local - server 22
timer - server 22
Examples
   copying a Post object 23
   creating a Post object 23
   deleting a Post object 24
   moving a Post object 25
   overview 23
   retrieving a Post object 25
   updating a Post object 26

F
Fields - vendor-extensible 9
Full WSDL 29
Full XML schema 33
   Messages Schema 33
   Types Schema 33

G
Glossary 6
Groups 15

I
Implementer - security considerations 28
Index of security parameters 28
Informative references 8
Initialization
   server 16
   Introduction 6

L
Local events
   server 22

M
Message processing
   server 16
Messages
   attribute groups 15
   attributes 15
   complex types 12
   elements 11
   enumerated 11
   groups 15
   namespaces 11
   simple types 14
   syntax 11
   t:PostItemType Complex Type complex type 12
   t:PostReplyItemBaseType Complex Type complex type 13
   t:PostReplyItemType Complex Type complex type 14
   transport 11
Moving a Post object example 25

N
Namespaces 11
Normative references 7

O
Operations
   CopyItem Operation 16
   CreateItem Operation 17
   DeleteItem Operation 18
   GetItem Operation 19
   MoveItem Operation 20
   UpdateItem Operation 21
   Overview (synopsis) 8

P
Parameters - security index 28
Preconditions 9
Prerequisites 9
Product behavior 35
Protocol Details
   overview 16

R
References 7
   informative 8
   normative 7
Relationship to other protocols 8
Retrieving a Post object example 25

S
Security