

[MS-OXWSPOST]: Post Items Web Service Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
07/15/2009	1.0	Major	Initial Availability.
11/04/2009	2.0.0	Major	Updated and revised the technical content.
02/10/2010	2.1.0	Minor	Updated the technical content.
05/05/2010	2.1.1	Editorial	Revised and edited the technical content.
08/04/2010	3.0	Major	Significantly changed the technical content.
11/03/2010	3.0	No change	No changes to the meaning, language, or formatting of the technical content.
03/18/2011	3.0	No change	No changes to the meaning, language, or formatting of the technical content.
08/05/2011	4.0	Major	Significantly changed the technical content.
10/07/2011	4.1	Minor	Clarified the meaning of the technical content.

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1 Introduction

The Post Items Web Service Protocol enables a protocol client to create, modify, delete, or retrieve **Post objects** from the server.

Sections 1.8, 2, and 3 of this specification are normative and contain RFC 2119 language. Sections 1.5 and 1.9 are also normative but cannot contain RFC 2119 language. All other sections and examples in this specification are informative.

1.1 Glossary

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

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
XML

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

conversation
header
Post object
public folder
SOAP message
store
Web server
Web Services Description Language (WSDL)
WSDL message
WSDL port type
XML namespace
XML schema

The following terms are specific to this document:

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

1.2 References

1.2.1 Normative References

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

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

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

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

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

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

1.2.2 Informative References

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

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

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

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

1.3 Overview

This protocol defines **XML schema** complex types that represent Post objects in **SOAP messages** between clients and servers that create, move, copy, modify, delete, or retrieve Post objects.

1.4 Relationship to Other Protocols

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.

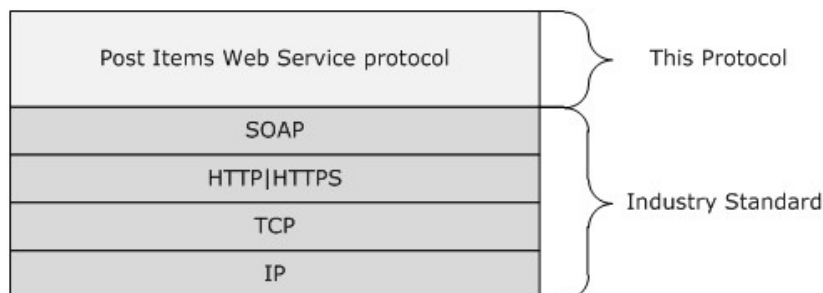


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

None.

1.6 Applicability Statement

This protocol is applicable to client programs that create, move, copy, modify, delete, or retrieve Post objects in the server data **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](#).
- **Protocol Versions:** This protocol specifies only one **WSDL port type** version.
- **Security and Authentication Methods:** This protocol relies on the **Web server** that is hosting it to perform authentication.
- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are specified in section [3.1.4](#).
- **Capability Negotiation:** None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The SOAP version supported is SOAP 1.1, 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, and SHOULD support SOAP over HTTPS.

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 namespace** 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.

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
tns	http://schemas.microsoft.com/exchange/services/2006/messages	
s	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA2]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA2]
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
t	http://schemas.microsoft.com/exchange/services/2006/types	
targetNamespace	http://schemas.microsoft.com/exchange/services/2006/messages	

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.

Complex type name	Description
PostItemType	Represents a Post object in a server store.

Complex type name	Description
PostReplyItemBaseType	Represents the base class for the PostReplyItemType class.
PostReplyItemType	Contains a reply to a Post object.

2.2.4.1 t:PostItemType Complex Type

The **PostItemType** complex type represents a Post object in a message server store. The **PostItemType** complex type extends the **ItemType** complex type, as specified in [\[MS-OXWScore\]](#) section 2.2.4.6.

```
<xs:complexType name="PostItemType">
  <xs:complexContent>
    <xs:extension
      base="t:ItemType"
    >
      <xs:sequence
        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="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>
```

Child Elements

Element name	Type	Description
ConversationIndex	xs:base64Binary ([XMLSCHEMA2])	Contains a binary ID that represents the thread to which this Post object belongs.
ConversationTopic	xs:string ([XMLSCHEMA2])	Represents the conversation identifier.
From	t:SingleRecipientType ([MS-OXWSCDATA] section 2.2.3.55)	Represents the address from which the Post object was sent, and can only be set at creation time.
InternetMessageId	xs:string	Represents the Internet message identifier of the Post object.
IsRead	xs:boolean ([XMLSCHEMA2])	Indicates whether the Post object has been read.
PostedTime	xs:dateTime ([XMLSCHEMA2])	Represents the time at which a Post object was posted. This element is read-only.
References	xs:string	Represents the Usenet header (2) that is used to associate replies with the Post object.
Sender	t:SingleRecipientType	Identifies the sender of the Post object, and can only be set at creation time.

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](#).

```

<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>
  </complexContent>
</complexType>

```

```

</xs:complexContent>
</xs:complexType>

```

Child Elements

Element name	Type	Description
Subject	xs:string ([XMLSCHEMA2])	Represents the subject of the Post object. 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.
Body	t:BodyType ([MS-OXWSCDATA] section 2.2.3.16)	Represents the body content of the Post object.
ReferenceItemId	t:ItemIdType	Identifies the Post object to which the response refers.

Attributes

Attribute name	Type	Description
ObjectName	xs:string ([XMLSCHEMA2])	Represents the name of an object. This name depends on the actual resource accessed.

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](#).

```

<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>

```

Child Elements

Element name	Type	Description
NewBodyContent	t:BodyType ([MS-OXWSCDATA] section 2.2.3.16)	Represents the new body content of a

Element name	Type	Description
	2.2.3.16)	Post object.

2.2.5 Simple Types

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

2.2.9 Common Data Structures

This specification does not define any common XML schema data structures.

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. The following table lists and describes the operations available on this port.

Operation name	Description
CopyItem	Defines a request to copy an item on the server.
CreateItem	Defines a request to create an item on the server.
DeleteItem	Defines a request to delete an item from the server.
GetItem	Defines a request to get an item from the server.
MoveItem	Defines a request to move an item on the server.
UpdateItem	Defines a request to update an item 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 lists and describes the WSDL operations that are defined by this protocol.

Operation name	Description
CopyItem	Copies items in the server.
CreateItem	Creates items in the server.
DeleteItem	Deletes items in the server.
GetItem	Gets items in the server.
MoveItem	Moves items in the server.
UpdateItem	Updates items in the server.

3.1.4.1 CreateItem Operation

This protocol uses the **CreateItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.2 to create Post object elements.

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

The protocol client sends a **tns:CreateItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.2.1.1) and the protocol server MUST respond with a **tns:CreateItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.2.1.2).

3.1.4.2 GetItem Operation

This protocol uses the **GetItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.4 to get Post object elements.

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

The protocol client sends a **tns:GetItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.4.1.1) and the protocol server MUST respond with a **tns:GetItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.4.1.1).

3.1.4.3 UpdateItem Operation

This protocol uses the **UpdateItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.7 to update Post object elements.

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

The protocol client sends a **tns:UpdateItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.7.1.1) and the protocol server MUST respond with a **tns:UpdateItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.7.1.2).

3.1.4.4 CopyItem Operation

This protocol uses the **CopyItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.1 to copy Post object elements.

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

```
</wsdl:operation>
```

The protocol client sends a **tns:CopyItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.1.1.1) and the protocol server MUST respond with a **tns:CopyItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.1.1.2).

3.1.4.5 MoveItem Operation

This protocol uses the **MoveItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.1 to move Post object elements.

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

The protocol client sends a **tns:MoveItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.5.1.1) and the protocol server MUST respond with a **tns:MoveItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.5.1.2).

3.1.4.6 DeleteItem Operation

This protocol uses the **DeleteItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.3 to delete Post object elements.

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

The protocol client sends a **tns>DeleteItemSoapIn** request WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.3.1.1) and the protocol server MUST respond with a **tns>DeleteItemSoapOut** response WSDL message (as specified in [\[MS-OXWSCORE\]](#) section 3.1.4.3.1.2).

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 CreateItem Operation

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

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

```
<?xml version="1.0" encoding="utf-16"?>
<CreateItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" MessageDisposition="SaveOnly">
  <SavedItemFolderId xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <FolderId Id="AQEuAADGkRzkKpmEc2byACqAC/EWgMATzciqtvmvEOGtSfqReMVLgABEfqapwAAAA=="
ChangeKey="AQAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+pqp"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </SavedItemFolderId>
  <Items xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <Subject>Company meeting scheduled for July 22</Subject>
      <Body BodyType="HTML">Please see www.contoso.com/companymeeting for full
details.</Body>
      <From>
        <Mailbox>
          <EmailAddress>jason@contoso.com</EmailAddress>
        </Mailbox>
      </From>
    </PostItem>
  </Items>
</CreateItemType>
```

The following is the response.

```
<?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="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py4" />
        </PostItem>
      </Items>
    </CreateItemResponseMessage>
  </ResponseMessages>
</CreateItemResponseType>
```


4.2 GetItem Operation

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 request to get the Post object from the server.

```
<?xml version="1.0" encoding="utf-16"?>
<GetItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <ItemShape xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <BaseShape
xmlns="http://schemas.microsoft.com/exchange/services/2006/types">Default</BaseShape>
  </ItemShape>
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId
Id="AQIARgAAAXpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAALgAAAXpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py4"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ItemIds>
</GetItemType>
```

The following is the response.

```
<?xml version="1.0" encoding="utf-16"?>
<GetItemResponseType 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">
    <GetItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
      <Items>
        <PostItem xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
          <ItemId
Id="AQIARgAAAXpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAALgAAAXpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
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;B73722AADBE6BC4386B527EA45E3152E0111FA9EBE@E14MBX.contoso.com&gt;</Int
ernetMessageId>
          <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>
</GetItemResponseType>
```

```

        </Mailbox>
    </Sender>
</PostItem>
</Items>
</GetItemResponseMessage>
</ResponseMessages>
</GetItemResponseType>

```

4.3 CopyItem Operation

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 request to copy the Post object.

```

<?xml version="1.0" encoding="utf-16"?>
<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/EWgMatzciqtmvE0GtSfqReMVLgABEfqapwAAAA=="
ChangeKey="AQAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+pqp"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ToFolderId>
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId
Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py4"
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 response.

```

<?xml version="1.0" encoding="utf-16"?>
<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="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqzAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAAA=" />
        </PostItem>
      </Items>
    </CopyItemResponseMessage>
  </ResponseMessages>
</CopyItemResponseType>

```

4.4 UpdateItem Operation

In this scenario, Jason wants to update the copy of the original Post object that was created in the example in section 4.3 to announce the next company meeting on October 21.

The following is the request to update the Post object.

```
<?xml version="1.0" encoding="utf-16"?>
<UpdateItemType xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" ConflictResolution="AlwaysOverwrite">
  <ItemChanges xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemChange xmlns="http://schemas.microsoft.com/exchange/services/2006/types">
      <ItemId
Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+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 response.

```
<?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="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py6" />
        </PostItem>
      </Items>
      <ConflictResults>
        <Count xmlns="http://schemas.microsoft.com/exchange/services/2006/types">0</Count>
      </ConflictResults>
    </UpdateItemResponseMessage>
  </ResponseMessages>
</UpdateItemResponseType>
```

4.5 MoveItem Operation

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 request to move the Post object.

```

<?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">
    <FolderId Id="AQEuAADGkRzkKpmEc2byACqAC/EWgMATzciqtvmvEOGtSfqReMVLgABEfqergAAAA=="
ChangeKey="AQAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+p6w"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
  </ToFolderId>
  <ItemIds xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
    <ItemId
Id="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+pqyAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6mqcAAAA=="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+py6"
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 response.

```

<?xml version="1.0" encoding="utf-16"?>
<MoveItemResponseType 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="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6nq4AAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+p7GAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6nq4AAAA=="
ChangeKey="FgAAAA==" />
          </PostItem>
        </Items>
      </MoveItemResponseMessage>
    </ResponseMessages>
  </MoveItemResponseType>

```

4.6 DeleteItem Operation

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

The following is the request to delete the Post object.

```

<?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="AQIARgAAAxpEc5CqZhHNm8gAqgAvxFoJALc3Iqrb5rxDhrUn6kXjFS4AARH6nq4AAAC3NyKq2+a8Q4a1J+pF4xUuA
AER+p7GAAAALgAAAxpEc5CqZhHNm8gAqgAvxFoDALc3Iqrb5rxDhrUn6kXjFS4AARH6nq4AAAA=="
ChangeKey="FgAAABYAAAC3NyKq2+a8Q4a1J+pF4xUuAAER+qDG"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types" />
    </ItemIds>
  </DeleteItemType>

```

The following is the response.

```
<?xml version="1.0" encoding="utf-16"?>
<DeleteItemResponseType 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">
    <DeleteItemResponseMessage ResponseClass="Success">
      <ResponseCode>NoError</ResponseCode>
    </DeleteItemResponseMessage>
  </ResponseMessages>
</DeleteItemResponseType>
```

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. The contents of each file are included in this section.

File name	Description	Section
MS-OXWSPOST.wsdl	Contains the WSDL for the implementation of this protocol.	6.1
MS-OXWSPOST-types.xsd	Contains the XML schema type definitions that are used in this protocol.	6.2

These files need 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 schema need to be placed in the common folder with these files.

For ease of implementation, the full WSDL and schemas are provided in the following sections.

6.1 WSDL

This section contains the content of the MS-OXWSPOST.wsdl file and information about additional files that this WSDL file requires to operate correctly.

For MS-OXWSPOST.wsdl to operate correctly, the file shown in the following table needs to be present in the folder that contains the WSDL, types schema and messages schema files for this protocol.

Defining specification	File name
[MS-OXWSCORE] section 7.1	MS-OXWSCORE-messages.xsd

MS-OXWSPOST.wsdl file:

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:s="http://www.w3.org/2001/XMLSchema" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages">
  <wsdl:types>
    <xs:schema id="messages" elementFormDefault="qualified" version="Exchange2010"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <xs:import
namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
      <xs:include schemaLocation="MS-OXWSCORE-messages.xsd"/>
    </xs:schema>
    <xs:schema id="types" elementFormDefault="qualified" version="Exchange2010"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
    </xs:schema>
  </wsdl:types>
</wsdl:definitions>
```

```

        <!-- Add global elements and types from types.xsd -->
    </xs:schema>
</wsdl:types>
<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: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/">
    </wsi:Claim>
    </wsdl:documentation>
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <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="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="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="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: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: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:definitions>

```

6.2 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.

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

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

MS-OXWSPOST-types.xsd file:

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<xs:schema xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified" version="Exchange2010" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSCORE-types.xsd"/>
  <xs:complexType name="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: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>
</xs:schema>

```

7 Appendix B: Product Behavior

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

- Microsoft® Exchange Server 2010

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

8 Change Tracking

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

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

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

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

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

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

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

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

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

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

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

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

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

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1.3 Overview	Added "move" and "copy" to the capabilities of the protocol.	N	Content updated.
1.6 Applicability Statement	Removed "update" and "send", added "move", "copy", "modify, and "delete" to the capabilities of the protocol.	N	Content updated.
2.1 Transport	Added information about HTTP and HTTPS.	N	Content updated.
2.2.4.1 t:PostItemType Complex Type	Added a reference for the ItemType complex type.	N	Content updated.
2.2.4.2 t:PostReplyItemBaseType Complex Type	Added a reference for the PostReplyItemType complex type.	N	Content updated.
2.2.4.2 t:PostReplyItemBaseType Complex Type	Changed type of ReferenceItemId to ItemIdType.	N	Content updated.
2.2.4.2 t:PostReplyItemBaseType Complex Type	Added information about values of the Subject element that exceed 255 characters.	N	Content updated.
2.2.4.3 t:PostReplyItemType Complex Type	Added a reference for the PostReplyItemBaseType complex type.	N	Content updated.
3.1	Removed SendItem operation from table of	N	Content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
ExchangeServicePortType Server Details	operations.		updated.
3.1.4 Message Processing Events and Sequencing Rules	Removed SendItem operation from table of operations.	N	Content updated.
3.1.4.1 CreateItem Operation	Added information about request and response messages.	N	Content updated.
3.1.4.2 GetItem Operation	Added information about request and response messages.	N	Content updated.
3.1.4.3 UpdateItem Operation	Added information about request and response messages.	N	Content updated.
3.1.4.4 CopyItem Operation	Added information about request and response messages.	N	Content updated.
3.1.4.5 MoveItem Operation	Added information about request and response messages.	N	Content updated.
3.1.4.6 DeleteItem Operation	Added information about request and response messages.	N	Content updated.
4 Protocol Examples	Added a description of the high-level scenario described in the six new example sections.	N	Content updated.
4.1 CreateItem Operation	Added a new section that provides an example for using the CreateItem operation.	N	New content added.
4.2 GetItem Operation	Added a new section that provides an example for using the GetItem operation.	N	New content added.
4.3 CopyItem Operation	Added a new section that provides an example for using the CopyItem operation.	N	New content added.
4.4 UpdateItem Operation	Added a new section that provides an example for using the UpdateItem operation.	N	New content added.
4.5 MoveItem Operation	Added a new section that provides an example for using the MoveItem operation.	N	New content added.
4.6 DeleteItem Operation	Added a new section that provides an example for using the DeleteItem operation.	N	New content added.
6.1 WSDL	Removed the SendItem operation.	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	Removed the section "Messages" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "GetItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "SendItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "DeleteItem Operation".	N	Content removed.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	Removed the section "Groups" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "DeleteItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "UpdateItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "MoveItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "CopyItem Operation".	N	Content removed.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	Removed the section "Simple Types" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "CopyItem Operation".	N	Content removed.
	Removed the section "Messages" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Elements" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Complex Types" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Simple Types" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Attributes" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Groups" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "Attribute Groups" from the section "CreateItem Operation".	N	Content removed.
	Removed the section "SendItem Operation".	N	Content removed.

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