

# [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	2.1.1	No change	No changes to the meaning, language, or formatting of the technical content.
11/03/2010	2.1.1	No change	No changes to the meaning, language, or formatting of the technical content.

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# 1 Introduction

This document specifies the Post Items Web Service protocol.

## 1.1 Glossary

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

**calendar**  
**conversation**  
**header**  
**Hypertext Transfer Protocol (HTTP)**  
**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**  
**identifier**  
**mailbox**  
**message**  
**property**  
**SOAP body**  
**SOAP fault**  
**SOAP header**  
**SOAP message**  
**store**  
**Web server**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL port type**  
**XML**  
**XML namespace**  
**XML schema**

The following terms are specific to this document:

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

## 1.2 References

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto: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-OXWSCORE] Microsoft Corporation, "[Core Items Web Service Protocol Specification](#)", July 2009.

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

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

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

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

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

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

### 1.2.2 Informative References

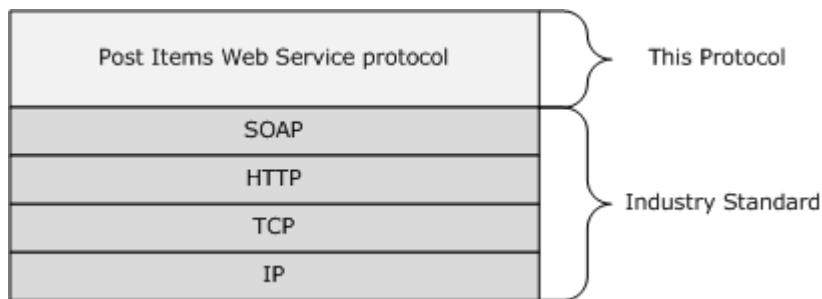
[MS-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)", April 2008.

### 1.3 Overview

The Post Item Web Service protocol provides clients with the ability to send items from the server.

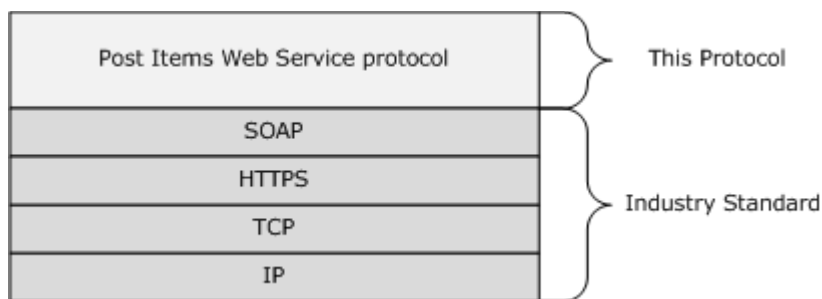
### 1.4 Relationship to Other Protocols

The Post Items Web Service Protocol uses SOAP over **HTTP** as shown in the following layering diagram:



**Figure 1: SOAP over HTTP**

The Post Items Web Service Protocol uses SOAP over **HTTPS** as shown in the following layering diagram:



**Figure 2: SOAP over HTTPS**

## 1.5 Prerequisites/Preconditions

None.

## 1.6 Applicability Statement

This protocol is applicable to client programs that create, update, manage, or send post items 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 [\[SOAP1.1\]](#)

### 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	<a href="http://schemas.xmlsoap.org/wsdl/soap/">http://schemas.xmlsoap.org/wsdl/soap/</a>	<a href="#">[SOAP1.1]</a>
tns	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	
s	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA2]</a>
xs	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>	<a href="#">[XMLSCHEMA2]</a>
wsdl	<a href="http://schemas.xmlsoap.org/wsdl/">http://schemas.xmlsoap.org/wsdl/</a>	<a href="#">[WSDL]</a>
t	<a href="http://schemas.microsoft.com/exchange/services/2006/types">http://schemas.microsoft.com/exchange/services/2006/types</a>	
targetNamespace	<a href="http://schemas.microsoft.com/exchange/services/2006/messages">http://schemas.microsoft.com/exchange/services/2006/messages</a>	

#### 2.2.2 Simple Types

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

#### 2.2.3 Complex Types

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

Complex Type	Description
<a href="#">t:PostItemType</a>	Represents a post item in a server store.
<a href="#">t:PostReplyItemBaseType</a>	Represents the base class for the <b>PostReplyItemType</b> class.
<a href="#">t:PostReplyItemType</a>	Contains a reply to a post item.



### 2.2.3.1 t:PostItemType Complex Type

The **PostItemType** complex type represents a post item in a message server store.

```
<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	Type	Description
ConversationIndex	<a href="#">xs:base64Binary</a>	Contains a binary ID that represents the thread to which this message belongs.

Element	Type	Description
ConversationTopic	<a href="#">xs:string</a>	Represents the <b>conversation identifier</b> .
From	<a href="#">t:SingleRecipientType</a>	Represents the address from which the message was sent, and can only be set at creation time.
InternetMessageId	<a href="#">xs:string</a>	Represents the Internet message identifier of an item.
IsRead	<a href="#">xs:boolean</a>	Indicates whether a message has been read.
PostedTime	<a href="#">xs:dateTime</a>	Represents the time at which a <PostItem> was posted. This element is read-only.
References	<a href="#">xs:string</a>	Represents the Usenet <b>header</b> that is used to associate replies with the original message.
Sender	<b>t:SingleRecipientType</b>	Identifies the sender of an item, and can only be set at creation time.

### 2.2.3.2 t:PostReplyItemBaseType Complex Type

The **PostReplyItemBaseType** complex type is the base type for the **PostReplyItemType** type.

```

<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:BodyType"
          minOccurs="0"
        />
      </xs:sequence>
      <xs:attribute name="ObjectName"
        type="xs:string"
        use="prohibited"
      />
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>

```

#### Child Elements

Element	Type	Description
Subject	<a href="#">xs:string</a>	Represents the subject <b>property</b> of server store items. The <Subject> is limited to 255 characters.
Body	<a href="#">t:BodyType</a>	Represents the actual body content of a message.
ReferenceItemId	t:BodyType	Identifies the item to which the response object refers.

#### Attributes

Name	Type	Description
ObjectName	<a href="#">xs:string</a>	The name of an object; this name depends on the actual resource accessed.

### 2.2.3.3 t:PostReplyItemType Complex Type

The **PostReplyItemType** complex type contains a reply to a post item.

```

<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	Type	Description
NewBodyContent	<a href="#">t:BodyType</a>	Represents the new body content of a message.

### 2.2.4 Elements

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

### 2.2.5 Attributes

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

### 2.2.6 Groups

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

### **2.2.7 Attribute Groups**

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

### **2.2.8 Message Syntax**

This specification does not define any common XML schema message syntax 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.

Operation	Description
<a href="#">GetItem</a>	Defines a request to get an item from a <b>mailbox</b> in the server.
<a href="#">SendItem</a>	Defines a request to send an item from a mailbox in the server.
<a href="#">DeleteItem</a>	Defines a request to delete an item from a mailbox in the server.
<a href="#">UpdateItem</a>	Defines a request to update an item in a mailbox.
<a href="#">MoveItem</a>	Defines a request to move an item in the server.
<a href="#">CopyItem</a>	Defines a request to copy an item in a mailbox in the server.
<a href="#">CreateItem</a>	Defines a request to create an item in the server.

#### 3.1.1 Abstract Data Model

This protocol is a stateless protocol.

#### 3.1.2 Timers

None.

#### 3.1.3 Initialization

None.

#### 3.1.4 Message Processing Events and Sequencing

This protocol includes the operations listed in the following table.

Operation	Description
<a href="#">GetItem</a>	Gets items in the server.
<a href="#">SendItem</a>	Sends items in the server.
<a href="#">DeleteItem</a>	Deletes items in the server.
<a href="#">UpdateItem</a>	Updates items in the server.
<a href="#">MoveItem</a>	Moves items in the server.
<a href="#">CopyItem</a>	Copies items in the server.
<a href="#">CreateItem</a>	Creates items in the server.

### 3.1.4.1 GetItem

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

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

Request

Message Format	Description
<a href="#">tns:GetItemSoapIn</a>	Specifies the <b>SOAP message</b> that defines the post item to get. The <a href="#">Items</a> child element of the <a href="#">GetItem</a> child element that specifies the <b>XML</b> request <b>MUST</b> contain the following elements: <a href="#">t:ItemResponseShapeType</a> , <a href="#">t:ItemIdType</a> . All other elements <b>MUST</b> be empty.

Response

Message Format	Description
<a href="#">tns:GetItemSoapOut</a>	Specifies the SOAP message returned by the server in response. The server returns a <b>t:ItemResponseShapeType</b> element that contains properties associated with the post item.

### 3.1.4.2 SendItem

This protocol uses the **SendItem** operation specified in [\[MS-OXWSCORE\]](#) section 3.1.4.6 to send post item elements.

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

Request

Message Format	Description
<a href="#">tns:SendItemSoapIn</a>	Specifies the SOAP message that defines the post item to send. The <a href="#">Items</a> child element of the <a href="#">SendItem</a> child element that specifies the XML request <b>MUST</b> contain the following elements: <a href="#">t:TargetFolderIdType</a> , and <a href="#">t:ItemIdType</a> . If the post item is a recurring <b>calendar</b> item, then <a href="#">t:OccurrenceItemIdType</a> , and <a href="#">t:RecurringMasterItemIdType</a> <b>SHOULD</b> be included. All other elements <b>MUST</b> be empty.

Response

Message Format	Description
<a href="#">tns:SendItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.4.3 DeleteItem

This protocol uses the **DeleteItem** operation specified in [\[MS-OXWScore\]](#) section 3.1.4.3 to delete post item elements.

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

Request

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

Response

Message Format	Description
<a href="#">tns:DeleteItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.4.4 UpdateItem

This protocol uses the **UpdateItem** operation specified in [\[MS-OXWScore\]](#) section 3.1.4.7 to update post item elements.

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

Request

Message Format	Description
<a href="#">tns:UpdateItemSoapIn</a>	Specifies the SOAP message that defines the post item to update. The <a href="#">Items</a> child element of the <a href="#">CreateItem</a> child element that specifies the XML request MUST contain one or more elements of the following types: <a href="#">t:PostItemType</a> , or <a href="#">t:PostReplyItemType</a> . All other elements MUST be empty.

Response

Message Format	Description
<a href="#">tns:UpdateItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.4.5 MoveItem

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

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

Request

Message Format	Description
<a href="#">tns:MoveItemSoapIn</a>	Specifies the SOAP message that defines the post item to move. The <b>Items</b> child element of the <b>MoveItem</b> child element that specifies the XML request MUST contain the following elements: <b>t:TargetFolderIdType</b> , and <b>t:ItemIdType</b> . All other elements MUST be empty.

Response

Message Format	Description
<a href="#">tns:MoveItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.4.6 CopyItem

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

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

Request

Message Format	Description
<a href="#">tns:CopyItemSoapIn</a>	Specifies the SOAP message that defines the post item to copy. The <b>Items</b> child element of the <b>CopyItem</b> child element that specifies the XML request MUST contain the following elements: <b>t:TargetFolderIdType</b> , and <b>t:ItemIdType</b> . All other elements MUST be empty.

Response



Message Format	Description
<a href="#">tns:CopyItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.4.7 Create Item

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

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

Request

Message Format	Description
<a href="#">tns:CreateItemSoapIn</a>	Specifies the SOAP message that defines the post item to create. The <a href="#">Items</a> child element of the <a href="#">CreateItem</a> child element that specifies the XML request MUST contain one or more elements of the following types: <a href="#">t:PostItemType</a> , or <a href="#">t:PostReplyItemType</a> . All other elements MUST be empty.

Response

Message Format	Description
<a href="#">tns:CreateItemSoapOut</a>	Specifies the SOAP message returned by the server in response.

### 3.1.5 Timer Events

None.

### 3.1.6 Other Local Events

None.

## 4 Protocol Examples

None.

## **5 Security**

### **5.1 Security Considerations for Implementers**

This protocol does not use additional security mechanisms.

### **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.	<a href="#">6.1</a>
MS-OXWSPost-types.xsd	Contains the XML schema type definitions that are used in this protocol.	<a href="#">6.2</a>
MS-OXWSPOST-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	<a href="#">6.3</a>

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 or MS-OXWSPOST-messages.xsd schemas 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 MUST be present in the folder that contains the WSDL, types schema and messages schema files for this protocol.

Defining specification	File name
<a href="#">[MS-OXWSCORE]</a> , section <a href="#">6.3</a>	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"/>
  <!-- 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="SendItem">
    <wsdl:input message="tns:SendItemSoapIn"/>
    <wsdl:output message="tns:SendItemSoapOut"/>
  </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"/>
  </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:binding>
</wsdl:service>

```

```

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

```

```

    <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="SendItemSoapIn">
    <wsdl:part name="request" element="tns:SendItem"/>
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
<wsdl:message name="SendItemSoapOut">
    <wsdl:part name="SendItemResult" element="tns:SendItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
<wsdl:message name="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
<a href="#">[MS-OXWSCORE]</a> , section <a href="#">6.2</a>	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: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>

```

### 6.3 Messages Schema

No messages schema file is specified for this protocol.

## 7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products:

- Microsoft® Exchange Server 2010

Exceptions, if any, are noted below. If a service pack number appears with the product version, behavior changed in that service pack. The new behavior also applies to subsequent service packs of the product unless otherwise specified. 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 prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that product does not follow the prescription.

## 8 Change Tracking

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

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