[MS-OXWSATT]:
Attachment Handling 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	1.0.1	Editorial	Revised and edited the technical content.
02/10/2010	2.0.0	Major	Updated and revised the technical content.
05/05/2010	3.0.0	Major	Updated and revised the technical content.
08/04/2010	3.1	Minor	Clarified the meaning of the technical content.
11/03/2010	4.0	Major	Significantly changed the technical content.
03/18/2011	5.0	Major	Significantly changed the technical content.
08/05/2011	5.1	Minor	Clarified the meaning of the technical content.
10/07/2011	5.1	No change	No changes to the meaning, language, or formatting of the technical content.
01/20/2012	6.0	Major	Significantly changed the technical content.
04/27/2012	6.0	No change	No changes to the meaning, language, or formatting of the technical content.
07/16/2012	7.0	Major	Significantly changed the technical content.
10/08/2012	7.1	Minor	Clarified the meaning of the technical content.

Release: October 8, 2012

Table of Contents

1 Introduction

The Attachment and Handling Web Service Protocol is used to create, delete, and get attachments on items on the server.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are defined in [MS-GLOS]:

base64
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
XML

The following terms are defined in [MS-OXGLOS]:

Attachment object
endpoint
mailbox
Message object
Multipurpose Internet Mail Extensions (MIME)
Simple Object Access Protocol (SOAP)
SOAP body
SOAP header
SOAP message
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
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

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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-OXDSCLI] Microsoft Corporation, "Autodiscover Publishing and Lookup Protocol Specification".

[MS-OXWSADISC] Microsoft Corporation, "Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol Specification".

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

[MS-OXWSCONT] Microsoft Corporation, "Contacts Web Service Protocol Specification".

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

[MS-OXWSGTZ] Microsoft Corporation, "Get Server Time Zone Web Service Protocol Specification".

[MS-OXWSMSG] Microsoft Corporation, "E-Mail Message Types Web Service Protocol Specification".

[MS-OXWSMTGS] Microsoft Corporation, "Calendaring Web Service Protocol Specification".

[MS-OXWSPOST] Microsoft Corporation, "Post Items Web Service Protocol Specification".

[MS-OXWSTASK] Microsoft Corporation, "Tasks 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

[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

[RFC3066] Alvestrand, H., "Tags for the Identification of Language", RFC 3066, January 2001, http://www.ietf.org/rfc/rfc3066.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".

[MS-OXPROTO] Microsoft Corporation, "Exchange Server Protocols System Overview".

1.3 Overview

The Attachment Handling Web Service Protocol enables clients to attach objects to messages. Clients use **Attachment objects** to associate files, OLE objects, other messages, or binary data with a particular **Message object**. Because Attachment objects are created, maintained, and accessed only in the context of a message, they are considered to be subobjects.

1.4 Relationship to Other Protocols

A client that implements this protocol can use the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol [MS-OXWSADISC] or the Autodiscover Publishing and Lookup Protocol [MS-OXDSCLI] to identify the target **endpoint (4)** to use for each operation.

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

This protocol uses SOAP over **HTTP** as described in [RFC2616], and SOAP over **HTTPS** as described in [RFC2818], as shown in the following figure.
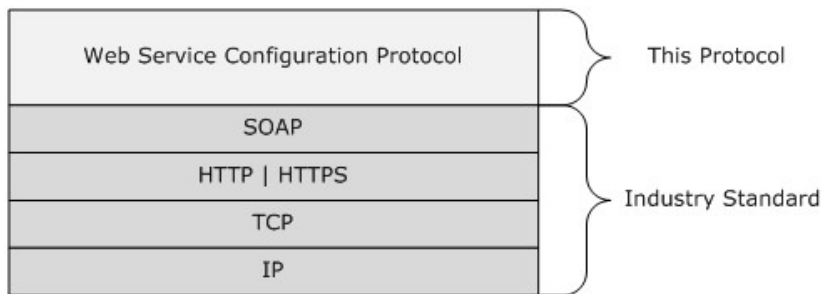
Figure 1: This protocol in relation to other protocols

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [MS-OXPROTO].

1.5 Prerequisites/Preconditions

The endpoint (4) **URL** that is returned by either the Autodiscover Publishing and Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], is required to form the HTTP request to the Web server that hosts this protocol. The operations that this protocol defines cannot be accessed unless the correct endpoint (4) is identified in the HTTP Web requests that target this protocol.

1.6 Applicability Statement

The protocol specified in this document is applicable to environments that attach items to messages. This Web service protocol is applicable to SOAP-based clients [SOAP1.1].

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses multiple transports with SOAP 1.1, as specified in section 2.1.

- **Protocol Versions:** This protocol has only one **WSDL port type** version. The **WSDL** version of the request is identified using the **t:RequestServerVersion** element as described in [MS-OXWSCDATA] section 2.2.5.9, and the version of the server responding to the request is identified using the t:ServerVersionInfo element as described in [MS-OXWSCDATA] section 2.2.5.10.

- **Security and Authentication Methods:** This protocol relies on the Web server that is hosting it to perform authentication.

- **Localization:** This protocol includes text strings in various messages. Localization considerations for such strings are specified in sections 2.2 and 3.1.4.

- **Capability Negotiation:** This protocol does not support version negotiation.

1.8   Vendor Extensible Fields

None.

1.9   Standards Assignments

None.

2 Messages

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification provides a base description of the protocol. The schema in this specification provides a base description of the message syntax. The text that specifies the WSDL and schema might specify restrictions that reflect actual protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, or **present**.

2.1 Transport

The SOAP version supported is SOAP 1.1. For details, see [SOAP1.1].

This protocol relies on the Web server that hosts the application to perform authentication. The protocol SHOULD use secure communications via HTTPS, as defined in [RFC2818].

2.2 Common Message Syntax

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

2.2.1 Namespaces

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

2.2.2 Messages

This specification does not define any common **WSDL message** definitions.

2.2.3 Elements

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

2.2.4 Complex Types

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

Complex type name	Description
ArrayOfAttachmentsType	Represents an array of types based on attachments to the item.
AttachmentIdType	Represents the item identifier and new change key of an item after an attachment has been attached.
AttachmentInfoResponseMessageType	Contains status and response data for attachment.
AttachmentType	Represents an attachment.
FileAttachmentType	Represents a file that is attached to an item in the server store.
t:ItemAttachmentType	Represents an item that is attached to another item.
NonEmptyArrayOfRequestAttachmentIdsType	Represents an array of attachment identifiers.
RequestAttachmentIdType	Represents the identifier for an attachment.
RootItemIdType	Identifies the root item of a deleted attachment.

2.2.4.1 t:ArrayOfAttachmentsType Complex Type

The **ArrayOfAttachmentsType** complex type represents an array of types based on attachments to the item. The **ArrayOfAttachmentsType** complex type is used only in the response message.

```
<xs:complexType name="ArrayOfAttachmentsType">
  <xs:choice
    minOccurs="0"
    maxOccurs="unbounded"
  >
    <xs:element name="ItemAttachment"
      type="t:ItemAttachmentType"
     />
    <xs:element name="FileAttachment"
      type="t:FileAttachmentType"
     />
  </xs:choice>
</xs:complexType>
```

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

Element name	Type	Description
ItemAttachment	**t:ItemAttachmentType** (section 2.2.4.6)	Specifies an item that is attached to another item.
FileAttachment	**t:FileAttachmentType** (section	Specifies a file that is attached to another

Element name	Type	Description
	2.2.4.5)	item.

2.2.4.2   t:AttachmentIdType Complex Type

The **AttachmentIdType** complex type represents the item identifier and new change key of an item after an attachment has been attached. The **AttachmentIdType** complex type extends the **RequestAttachmentIdType** complex type, as specified in section 2.2.4.8.

```
<xs:complexType name="AttachmentIdType">
  <xs:complexContent>
    <xs:extension
      base="t:RequestAttachmentIdType"
    >
      <xs:attribute name="RootItemId"
        type="xs:string"
        use="optional"
       />
      <xs:attribute name="RootItemChangeKey"
        type="xs:string"
        use="optional"
       />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table summarizes the set of common XML schema attribute definitions defined by this specification.

Attribute name	Type	Description
RootItemId	**xs:string** ([XMLSCHEMA2])	Represents the unique identifier of the root store item to which the attachment is attached. The maximum length is 512 bytes after **base64** decoding.
RootItemChangeKey	**xs:string**	Represents the change key of the root store item to which the attachment is attached. The maximum length is 512 bytes after base64 decoding.

2.2.4.3   m:AttachmentInfoResponseMessageType Complex Type

The **AttachmentInfoResponseMessageType** complex type contains status and response data for attachments. The **AttachmentInfoResponseMessageType** complex type extends the **ResponseMessageType** complex type, ([MS-OXWSCDATA] section 2.2.4.57).

```
<xs:complexType name="AttachmentInfoResponseMessageType">
  <xs:complexContent>
    <xs:extension
      base="m:ResponseMessageType"
    >
      <xs:sequence>
        <xs:element name="Attachments"
          type="t:ArrayOfAttachmentsType"
```

```
            />
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
```

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

Element name	Type	Description
Attachments	**t:ArrayOfAttachmentsType** (section 2.2.4.1)	Represents an array of types based on attachments on the item. The **ArrayOfAttachmentsType** complex type is used only in the response message.

2.2.4.4   t:AttachmentType Complex Type

The **AttachmentType** complex type represents an attachment.

```
<xs:complexType name="AttachmentType">
  <xs:sequence>
    <xs:element name="AttachmentId"
      type="t:AttachmentIdType"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="Name"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="ContentType"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="ContentId"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="ContentLocation"
      type="xs:string"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="Size"
      type="xs:int"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="LastModifiedTime"
      type="xs:dateTime"
      minOccurs="0"
```

```
      maxOccurs="1"
    />
   <xs:element name="IsInline"
     type="xs:boolean"
     minOccurs="0"
     maxOccurs="1"
    />
  </xs:sequence>
 </xs:complexType>
```

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

Element name	Type	Description
AttachmentId	**t:AttachmentIdType** (section 2.2.4.2)	Specifies the attachment identifier.
Name	**xs:string**([XMLSCHEMA2])	Specifies the descriptive name of the attachment.
ContentType	**xs:string**	Specifies the **MIME** type of the attachment content. For example: "text/enriched", "text/html", "text/plain", "text/rfc822-headers", "text/richtext", or "text/sgml".
ContentId	**xs:string**	Specifies the unique object identifier for an attachment.
ContentLocation	**xs:string**	Specifies the **URI** that corresponds to the location of the content of the attachment. The **ContentLocation** element can be used to associate an attachment with a URL that defines its location on the Web.
Size	**xs:int** ([XMLSCHEMA2])	Specifies an estimate of the size, in bytes, of the item's complete body.
LastModifiedTime	**xs:dateTime** ([XMLSCHEMA2])	Specifies the day and time that this item was last changed.
IsInline	**xs:Boolean** ([XMLSCHEMA2])	A Boolean value that indicates whether the attachment is an inline attachment. The **IsInline** element is set to indicate that the attachment appears inline within an item.

The **AttachmentType** complex type is extended by the **ItemAttachmentType** complex type, as specified in section 2.2.4.6, and the **FileAttachmentType** complex type, as specified in section 2.2.4.5.

2.2.4.5   t:FileAttachmentType Complex Type

The **FileAttachmentType** complex type represents a file that is attached to an item in the server store. The **FileAttachmentType** complex type extends the **AttachmentType** complex type, as specified in section 2.2.4.4.

```
 <xs:complexType name="FileAttachmentType">
  <xs:complexContent>
```

```
<xs:extension name="FileAttachmentType"
  base="t:AttachmentType"
>
  <xs:sequence>
    <xs:element name="IsContactPhoto"
      type="xs:boolean"
      minOccurs="0"
      maxOccurs="1"
    />
    <xs:element name="Content"
      type="xs:base64Binary"
      minOccurs="0"
      maxOccurs="1"
    />
  </xs:sequence>
</xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
IsContactPhoto	**xs:boolean** ([XMLSCHEMA2])	A value that indicates whether this attachment is a contact photo. A text value of "true" indicates that the attachment is a contact photo.
Content	**xs:base64Binary** ([XMLSCHEMA2])	Represents the base64-encoded contents of the file attachment.

2.2.4.6   t:ItemAttachmentType Complex Type

The **ItemAttachmentType** complex type represents an item that is attached to another item in the server store. The **ItemAttachmentType** complex type extends the **AttachmentType** complex type as specified in section 2.2.4.4.

```
<xs:complexType name="ItemAttachmentType">
  <xs:complexContent>
    <xs:extension
      base="t:AttachmentType"
    >
      <xs:choice
        minOccurs="0"
        maxOccurs="1"
      >
        <xs:element name="Item"
          type="t:ItemType"
        />
        <xs:element name="Message"
          type="t:MessageType"
        />
        <xs:element name="CalendarItem"
          type="t:CalendarItemType"
        />
        <xs:element name="Contact"
```

```
        type="t:ContactItemType"
      />
      <xs:element name="MeetingMessage"
        type="t:MeetingMessageType"
      />
      <xs:element name="MeetingRequest"
        type="t:MeetingRequestMessageType"
      />
      <xs:element name="MeetingResponse"
        type="t:MeetingResponseMessageType"
      />
      <xs:element name="MeetingCancellation"
        type="t:MeetingCancellationMessageType"
      />
      <xs:element name="Task"
        type="t:TaskType"
      />
      <xs:element name="PostItem"
        type="t:PostItemType"
      />
    </xs:choice>
  </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
Item	**t:ItemType** ([MS-OXWSCORE] section 2.2.4.8)	Represents a generic item in the server store.
Message	**t:MessageType** ([MS-OXWSMSG] section 2.2.4.1)	Represents a server e-mail message.
CalendarItem	**t:CalendarItemType** ([MS-OXWSMTGS] section 2.2.4.4)	Represents a calendar item.
Contact	**t:ContactItemType** ([MS-OXWSCONT] section 2.2.4.2)	Represents a contact item.
MeetingMessage	**t:MeetingMessageType** ([MS-OXWSMTGS] section 2.2.4.12)	Represents a meeting message in the server store.
MeetingRequest	**t:MeetingRequestMessageType** ([MS-OXWSMTGS] section 2.2.4.13)	Represents a meeting request in the server store.
MeetingResponse	**t:MeetingResponseMessageType** ([MS-OXWSMTGS] section 2.2.4.14)	Represents a meeting response in the server store.
MeetingCancellation	**t:MeetingCancellationMessageType** ([MS-OXWSMTGS] section 2.2.4.11)	Represents a meeting cancellation in the server store.

Element name	Type	Description
Task	**t:TaskType** ([MS-OXWSTASK] section 2.2.4.3)	Represents a task in the server store.
PostItem	**t:PostItemType** ([MS-OXWSPOST] section 2.2.4.1)	Represents a post item in the server store.

2.2.4.7   t:NonEmptyArrayOfRequestAttachmentIdsType Complex Type

The **NonEmptyArrayOfRequestAttachmentIdsType** complex type represents an array that contains attachment identifiers.

```
<xs:complexType name="NonEmptyArrayOfRequestAttachmentIdsType">
  <xs:choice
    minOccurs="1"
    maxOccurs="unbounded"
  >
    <xs:element name="AttachmentId"
      type="t:RequestAttachmentIdType"
     />
  </xs:choice>
</xs:complexType>
```

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

Element name	Type	Description
AttachmentId	**t:RequestAttachmentIdType** section 2.2.4.8)	Represents an identifier for an attachment.

2.2.4.8   t:RequestAttachmentIdType Complex Type

The **RequestAttachmentIdType** complex type represents an identifier for an attachment. The **RequestAttachmentIdType** complex type extends the **BaseItemIdType** complex type ([MS-OXWSCDATA] section 2.2.4.13).

```
<xs:complexType name="RequestAttachmentIdType">
  <xs:complexContent>
    <xs:extension
      base="t:BaseItemIdType"
    >
      <xs:attribute name="Id"
        type="xs:string"
        use="required"
       />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table summarizes the set of common XML schema attribute definitions defined by this specification.

Attribute name	Type	Description
Id	**xs:string** ([XMLSCHEMA2])	Provides an identifier for an attachment. The maximum length is 512 bytes after base64 decoding.

2.2.4.9 t:RootItemIdType Complex Type

The **RootItemIdType** complex type identifies the root item of a deleted attachment and the new change key to the parent item. The **RootItemIdType** complex type extends the **BaseItemIdType** complex type ([MS-OXWSCDATA] section 2.2.4.13.)

```
<xs:complexType name="RootItemIdType">
  <xs:complexContent>
    <xs:extension
      base="t:BaseItemIdType"
    >
      <xs:attribute name="RootItemId"
        type="xs:string"
        use="required"
       />
      <xs:attribute name="RootItemChangeKey"
        type="xs:string"
        use="required"
       />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

The following table summarizes the set of common XML schema attribute definitions defined by this specification.

Attribute name	Type	Description
RootItemId	**xs:string** ([XMLSCHEMA2])	Identifies the root item of an attachment. The maximum length is 512 bytes after base64 decoding.
RootItemChangeKey	**xs:string**	Identifies the new change key of the root item of an attachment. The maximum length is 512 bytes after base64 decoding.

2.2.5 Simple Types

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

2.2.6 Attributes

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

2.2.7 Groups

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

2.2.8 Attribute Groups

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

3   Protocol Details

The client side of this protocol is simply a pass-through. That is, no additional timers or other state are required on the client side of this protocol. Calls made by the higher-layer protocol or application are passed directly to the transport, and the results returned by the transport are passed directly back to the higher-layer protocol or application.

3.1   ExchangeServicePortType Server Details

The Attachment Handling Web Service Protocol defines a single WSDL port type with three operations. The operations enable client implementations to create, delete, and get attachments.

3.1.1   Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that specified in this document.

The Attachment Handling Web Service Protocol is used to create, delete, and get attachments on items on the account's **mailbox** on the server.

3.1.2   Timers

None.

3.1.3   Initialization

None.

3.1.4   Message Processing Events and Sequencing Rules

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

Operation name	Description
CreateAttachment	Creates either an item or file attachment and attaches it to the specified item.
DeleteAttachment	Deletes file and item attachments from an existing item in the server store.
GetAttachment	Retrieves existing attachments on items in the server store.

3.1.4.1   CreateAttachment Operation

The **CreateAttachment** operation creates an item or file attachment on an item in the server store.

The following is the WSDL port type specification of the **CreateAttachment** operation.

```
<wsdl:operation name="CreateAttachment">
      <wsdl:input message="tns:CreateAttachmentSoapIn" />
      <wsdl:output message="tns:CreateAttachmentSoapOut" />
</wsdl:operation>
```

Release: October 8, 2012

The following is the WSDL binding specification of the **CreateAttachment** operation.

```
<wsdl:operation name="CreateAttachment">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateAttachment" />
    <wsdl:input>
        <soap:header message="tns:CreateAttachmentSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:CreateAttachmentSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:CreateAttachmentSoapIn" part="RequestVersion"
use="literal"/>
        <soap:header message="tns:CreateAttachmentSoapIn" part="TimeZoneContext"
use="literal"/>
        <soap:body parts="request" use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="CreateAttachmentResult" use="literal" />
        <soap:header message="tns:CreateAttachmentSoapOut" part="ServerVersion"
use="literal"/>
    </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **CreateAttachmentSoapIn** request WSDL message, and the protocol server responds with a **CreateAttachmentSoapOut** response WSDL message.

An item attachment does not exist as a store item. It only exists as an attachment to an item or another attachment. Item attachments can be retrieved only by using the **GetAttachment** operation request.

A successful **CreateAttachment** operation request returns a **CreateAttachmentResponse** element with the **ResponseClass** attribute of the **CreateAttachmentResponseMessage** element set to "Success". The **ResponseCode** element of the **CreateAttachmentResponse** element is set to "NoError".

3.1.4.1.1 Messages

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

Message name	Description
CreateAttachmentSoapIn	Specifies the **SOAP message** that creates an attachment.
CreateAttachmentSoapOut	Specifies the SOAP message that is returned by the server in response.

3.1.4.1.1.1 tns:CreateAttachmentSoapIn Message

The **CreateAttachmentSoapIn** WSDL message specifies the **CreateAttachment** operation request to create an attachment.

```
<wsdl:message name="CreateAttachmentSoapIn">
    <wsdl:part name="request" element="tns:CreateAttachment" />
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
```

```
        <wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
    </wsdl:message>
```

The **CreateAttachmentSoapIn** WSDL message is the input message for the SOAP action
http://schemas.microsoft.com/exchange/services/2006/messages/CreateAttachment.

The five parts of the **CreateAttachmentSoapIn** WSDL message are described in the following
table.

Part name	Element/type	Description
request	**tns:CreateAttachment** (section 3.1.4.1.2.1)	Specifies the **SOAP body** of the request create an attachment.
Impersonation	**t:ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.4.29)	Specifies a **SOAP header** that identifies the user whom the client application is impersonating.
MailboxCulture	**t:MailboxCulture** ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to use for accessing the mailbox. The cultures are defined by [RFC3066].
RequestVersion	**t:RequestServerVersion** ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the **CreateAttachment** operation request.
TimeZoneContext	**t:TimeZoneContext** ([MS-OXWSGTZ] section 2.2.3.4)	Specifies a time zone definition and enables associating SOAP attributes with the definition.

3.1.4.1.1.2   tns:CreateAttachmentSoapOut Message

The **CreateAttachmentSoapOut** WSDL message specifies the server response to the
CreateAttachment operation request to create an attachment.

```
<wsdl:message name="CreateAttachmentSoapOut">
    <wsdl:part name="CreateAttachmentResult" element="tns:CreateAttachmentResponse" />
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **CreateAttachmentSoapOut** WSDL message is the output message for the SOAP action
http://schemas.microsoft.com/exchange/services/2006/messages/CreateAttachment.

The two parts of the **CreateAttachmentSoapOut** WSDL message are described in the following
table.

Part name	Element/type	Description
CreateAttachmentResult	**tns:CreateAttachmentResponse** (section 3.1.4.1.2.2)	Specifies the SOAP body of the response to a **CreateAttachment** operation request.
ServerVersion	**t:ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for

Part name	Element/type	Description
		the response.

3.1.4.1.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element name	Description
CreateAttachment	Specifies a request to create an attachment.
CreateAttachmentResponse	Specifies the response body content from a request to create an attachment.

3.1.4.1.2.1 CreateAttachment Element

The **CreateAttachment** element specifies the request message for a **CreateAttachment** operation.

```
<xs:element name="CreateAttachment"
  type="m:CreateAttachmentType"
 />
```

3.1.4.1.2.2 CreateAttachmentResponse Element

The **CreateAttachmentResponse** element specifies the response message for a **GetAttachment** operation.

```
<xs:element name="CreateAttachmentResponse"
  type="m:CreateAttachmentResponseType"
 />
```

3.1.4.1.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type name	Description
CreateAttachmentResponseType	Specifies a response message for the **CreateAttachment** operation.
CreateAttachmentType	Specifies request message for the **CreateAttachment** operation.

3.1.4.1.3.1 m:CreateAttachmentResponseType Complex Type

The **CreateAttachmentResponseType** complex type specifies the response message that is returned by the **CreateAttachment** operation. The **CreateAttachmentResponseType** complex

type extends the **BaseResponseMessageType** complex type ([MS-OXWSCDATA] section 2.2.4.16).

```
<xs:complexType name="CreateAttachmentResponseType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
    />
  </xs:complexContent>
</xs:complexType>
```

3.1.4.1.3.2   m:CreateAttachmentType Complex Type

The **CreateAttachmentType** complex type specifies a request message to attach an item or file to a specified item in the server database. The **CreateAttachmentType** complex type extends the **BaseRequestType** complex type ([MS-OXWSCDATA] section 2.2.4.15).

```
<xs:complexType name="CreateAttachmentType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element name="ParentItemId"
          type="t:ItemIdType"
        />
        <xs:element name="Attachments"
          type="t:NonEmptyArrayOfAttachmentsType"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
ParentItemId	**t:ItemIdType** ([MS-OXWSCORE] section 2.2.4.19)	Identifies the parent item in the server store that contains the attachment. The **ParentItemId** element MUST provide the ID of a store item. The **ParentItemId** element can be retrieved by using the **GetItem** operation.
Attachments	**t:NonEmptyArrayOfAttachmentsType** ([MS-OXWSCDATA] section 2.2.4.43)	Contains the items or files that are attached to an item in the server store.

3.1.4.2 DeleteAttachment Operation

The **DeleteAttachment** operation deletes an attachment from an item in the server store.

The following is the WSDL port type specification of the operation.

```
<wsdl:operation name="DeleteAttachment">
    <wsdl:input message="tns:DeleteAttachmentSoapIn" />
    <wsdl:output message="tns:DeleteAttachmentSoapOut" />
</wsdl:operation>
```

The following is the WSDL binding specification of the operation.

```
<wsdl:operation name="DeleteAttachment">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/DeleteAttachment" />
    <wsdl:input>
        <soap:header message="tns:DeleteAttachmentSoapIn" part="Impersonation"
use="literal"/>
        <soap:header message="tns:DeleteAttachmentSoapIn" part="MailboxCulture"
use="literal"/>
        <soap:header message="tns:DeleteAttachmentSoapIn" part="RequestVersion"
use="literal"/>
        <soap:body parts="request" use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="DeleteAttachmentResult" use="literal" />
        <soap:header message="tns:DeleteAttachmentSoapOut" part="ServerVersion"
use="literal"/>
    </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **DeleteAttachmentSoapIn** request WSDL message, and the protocol server responds with a **DeleteAttachmentSoapOut** response WSDL message.

An item attachment does not exist as a store item. It only exists as an attachment to an item or another attachment. Item attachments can be retrieved only by using the **GetAttachment** operation request. Before an attachment can be deleted, the item MUST be retrieved from the server.

A successful **DeleteAttachment** operation request returns a **DeleteAttachmentResponse** element with the **ResponseClass** attribute of the **DeleteAttachmentResponseMessage** element set to "Success". The **ResponseCode** element of the **DeleteAttachmentResponse** element is set to "NoError".

3.1.4.2.1 Messages

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

Message name	Description
DeleteAttachmentSoapIn	Specifies the SOAP message that deletes an attachment.
DeleteAttachmentSoapOut	Specifies the SOAP message that is returned by the server in response.

3.1.4.2.1.1 tns:DeleteAttachmentSoapIn Message

The **DeleteAttachmentSoapIn** WSDL message specifies the **DeleteAttachment** operation request to delete an attachment.

```
<wsdl:message name="DeleteAttachmentSoapIn">
    <wsdl:part name="request" element="tns:DeleteAttachment" />
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

The **DeleteAttachmentSoapIn** WSDL message is the input message for the SOAP action
http://schemas.microsoft.com/exchange/services/2006/messages/DeleteAttachment.

The four parts of the **DeleteAttachmentSoapIn** WSDL message are described in the following table.

Part name	Element/type	Description
request	**tns:DeleteAttachment** (section 3.1.4.2.2.1)	Specifies the SOAP body of the request to delete an attachment.
Impersonation	t:ExchangeImpersonation ([MS-OXWSCDATA] section 2.2.4.29	Specifies a SOAP header that identifies the user who the client application is impersonating .
MailboxCulture	t:MailboxCulture ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to use for accessing the mailbox. The cultures are defined by [RFC3066].
RequestVersion	t:RequestServerVersion ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the **DeleteAttachment** operation request.

3.1.4.2.1.2 tns:DeleteAttachmentSoapOut Message

The **DeleteAttachmentSoapOut** WSDL message specifies the server response to the
DeleteAttachment operation request to delete an attachment.

```
<wsdl:message name="DeleteAttachmentSoapOut">
    <wsdl:part name="DeleteAttachmentResult" element="tns:DeleteAttachmentResponse" />
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **DeleteAttachmentSoapOut** WSDL message is the output message for the SOAP action
http://schemas.microsoft.com/exchange/services/2006/messages/DeleteAttachment.

The two parts of the **DeleteAttachmentSoapOut** WSDL message are described in the following table.

Part name	Element/type	Description
DeleteAttachmentResult	**tns:DeleteAttachmentResponse** (section 3.1.4.2.2.2)	Specifies the SOAP body of the response to a

Part name	Element/type	Description
		DeleteAttachment operation request.
ServerVersion	**t:ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.2.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element name	Description
DeleteAttachment	Specifies a request to delete an attachment.
DeleteAttachmentResponse	Specifies the response body content from a request to delete an attachment.

3.1.4.2.2.1 DeleteAttachment Element

The **DeleteAttachment** element specifies the request message for a **DeleteAttachment** operation.

```
<xs:element name="DeleteAttachment"
  type="m:DeleteAttachmentType"
 />
```

3.1.4.2.2.2 DeleteAttachmentResponse Element

The **DeleteAttachmentResponse** element specifies the response message for a **DeleteAttachment** operation.

```
<xs:element name="DeleteAttachmentResponse"
  type="m:DeleteAttachmentResponseType"
 />
```

3.1.4.2.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type name	Description
DeleteAttachmentResponseMessageType	Specifies the parent item of a deleted attachment.
DeleteAttachmentResponseType	Specifies a response message for the **DeleteAttachment** operation.

Complex type name	Description
DeleteAttachmentType	Specifies a request message for the **DeleteAttachment** operation.

3.1.4.2.3.1   m:DeleteAttachmentResponseMessageType Complex Type

The **DeleteAttachmentResponseMessageType** complex type contains the status and result of a single **DeleteAttachment** operation. The **DeleteAttachmentResponseMessageType** complex type extends the **ResponseMessageType** complex type ([MS-OXWSCDATA] section 2.2.4.57).

```
<xs:complexType name="DeleteAttachmentResponseMessageType">
  <xs:complexContent>
    <xs:extension
      base="m:ResponseMessageType"
    >
      <xs:sequence>
        <xs:element name="RootItemId"
          type="t:RootItemIdType"
          minOccurs="0"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
RootItemId	**t:RootItemIdType** (section 2.2.4.9)	Specifies the parent item of a deleted attachment.

3.1.4.2.3.2   m:DeleteAttachmentResponseType Complex Type

The **DeleteAttachmentResponseType** complex type specifies the response message that is returned by the **DeleteAttachment** operation. The **DeleteAttachmentResponseType** complex type extends the **BaseResponseMessageType** complex type ([MS-OXWSCDATA] section 2.2.4.16).

```
<xs:complexType name="DeleteAttachmentResponseType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
    />
  </xs:complexContent>
</xs:complexType>
```

3.1.4.2.3.3   m:DeleteAttachmentType Complex Type

The **DeleteAttachmentType** complex type specifies a request message to delete an attachment on an item in the server database. The **DeleteAttachmentType** complex type extends the **BaseRequestType** complex type ([MS-OXWSCDATA] section 2.2.4.15).

```
<xs:complexType name="DeleteAttachmentType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element name="AttachmentIds"
          type="t:NonEmptyArrayOfRequestAttachmentIdsType"
        />
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
AttachmentIds	**t:NonEmptyArrayOfRequestAttachmentIdsType** (section 2.2.4.7)	Contains the items or files that are attached to an item in the server store to be deleted.

3.1.4.3   GetAttachment Operation

The **GetAttachment** operation gets an attachment from an item in the server store.

The following is the WSDL port type specification of the operation.

```
<wsdl:operation name="GetAttachment">
    <wsdl:input message="tns:GetAttachmentSoapIn" />
    <wsdl:output message="tns:GetAttachmentSoapOut" />
</wsdl:operation>
```

The following is the WSDL binding specification of the operation.

```
<wsdl:operation name="GetAttachment">
    <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/GetAttachment" />
    <wsdl:input>
        <soap:header message="tns:GetAttachmentSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="tns:GetAttachmentSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="tns:GetAttachmentSoapIn" part="RequestVersion" use="literal"/>
        <soap:header message="tns:GetAttachmentSoapIn" part="TimeZoneContext" use="literal"/>
        <soap:body parts="request" use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body parts="GetAttachmentResult" use="literal" />
```

```
            <soap:header message="tns:GetAttachmentSoapOut" part="ServerVersion" use="literal"/>
        </wsdl:output>
    </wsdl:operation>
```

The protocol client sends a **GetAttachmentSoapIn** request WSDL message, and the protocol server responds with a **GetAttachmentSoapOut** response WSDL message.

A successful **GetAttachment** operation request returns a **GetAttachmentResponse** element with the **ResponseClass** attribute of the **GetAttachmentResponseMessage** element set to "Success". The **ResponseCode** element of the **GetAttachmentResponse** element is set to "NoError".

3.1.4.3.1   Messages

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

Message name	Description
GetAttachmentSoapIn	Specifies the SOAP message that gets an attachment.
GetAttachmentSoapOut	Specifies the SOAP message that is returned by the server in response.

3.1.4.3.1.1   tns:GetAttachmentSoapIn Message

The **GetAttachmentSoapIn** WSDL message specifies the **GetAttachment** operation request to get an attachment.

```
<wsdl:message name="GetAttachmentSoapIn">
    <wsdl:part name="request" element="tns:GetAttachment" />
    <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
    <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
    <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
    <wsdl:part name="TimeZoneContext" element="t:TimeZoneContext"/>
</wsdl:message>
```

The **GetAttachmentSoapIn** WSDL message is the input message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/GetAttachment.

The five parts of the **GetAttachmentSoapIn** message are described in the following table.

Part name	Element/type	Description
request	**tns:GetAttachment** (section 3.1.4.3.2.1)	Specifies the SOAP body of the request to get an attachment.
Impersonation	**t:ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.4.29)	Specifies a SOAP header that identifies the user who the client application is impersonating.
MailboxCulture	**t:MailboxCulture** ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to use for accessing the mailbox. The cultures are defined by [RFC3066].
RequestVersion	**t:RequestServerVersion** ([MS-OXWSCDATA] section 2.2.5.9)	Specifies a SOAP header that identifies the schema version for the **GetAttachment**

Part name	Element/type	Description
		operation request.
TimeZoneContext	**t:TimeZoneContext** ([MS-OXWSGTZ] section 2.2.3.4)	Specifies a time zone definition and enables associating SOAP attributes with the definition.

3.1.4.3.1.2 tns:GetAttachmentSoapOut Message

The **GetAttachmentSoapOut** WSDL message specifies the server response to the **GetAttachment** operation request to get an attachment.

```
<wsdl:message name="GetAttachmentSoapOut">
    <wsdl:part name="GetAttachmentResult" element="tns:GetAttachmentResponse" />
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

The **GetAttachmentSoapOut** WSDL message is the output message for the SOAP action http://schemas.microsoft.com/exchange/services/2006/messages/GetAttachment.

The two parts of the **GetAttachmentSoapOut** WSDL message are described in the following table.

Part name	Element/type	Description
GetAttachmentResult	**tns:GetAttachmentResponse** (section 3.1.4.3.2.2)	Specifies the SOAP body of the response to a **GetAttachment** operation request.
ServerVersion	**t:ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.5.10)	Specifies a SOAP header that identifies the server version for the response.

3.1.4.3.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

Element name	Description
GetAttachment	Specifies a request to get an attachment.
GetAttachmentResponse	Specifies the response body content from a request to get an attachment.

3.1.4.3.2.1 GetAttachment Element

The **GetAttachment** element specifies the request message for a **GetAttachment** operation.

```
<xs:element name="GetAttachment"
  type="m:GetAttachmentType"
 />
```

3.1.4.3.2.2   GetAttachmentResponse Element

The **GetAttachmentResponse** element specifies the response message to a **GetAttachment** operation.

```
<xs:element name="GetAttachmentResponse"
  type="m:GetAttachmentResponseType"
 />
```

3.1.4.3.3   Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

Complex type name	Description
GetAttachmentResponseType	Specifies a response message for the **GetAttachment** operation.
GetAttachmentType	Specifies a request message for the **GetAttachment** operation.
AttachmentResponseShapeType	Specifies additional properties for the **GetAttachment** operation to return.

3.1.4.3.3.1   m:GetAttachmentResponseType Complex Type

The **GetAttachmentResponseType** complex type specifies the response message that is returned by the **GetAttachment** operation. The **GetAttachmentResponseType** complex type extends the **BaseResponseMessageType** complex type ([MS-OXWSCDATA] section 2.2.4.16).

```
<xs:complexType name="GetAttachmentResponseType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseResponseMessageType"
     />
  </xs:complexContent>
</xs:complexType>
```

3.1.4.3.3.2   m:GetAttachmentType Complex Type

The **GetAttachmentType** complex type specifies a request message to get attached items and files on an item in the server database. The **GetAttachmentType** complex type extends the **BaseRequestType** complex type ([MS-OXWSCDATA] section 2.2.4.15).

```
<xs:complexType name="GetAttachmentType">
  <xs:complexContent>
    <xs:extension
      base="m:BaseRequestType"
    >
      <xs:sequence>
        <xs:element name="AttachmentShape"
          type="t:AttachmentResponseShapeType"
          minOccurs="0"
```

```
          />
       <xs:element name="AttachmentIds"
         type="t:NonEmptyArrayOfRequestAttachmentIdsType"
         />
     </xs:sequence>
   </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

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

Element name	Type	Description
AttachmentShape	**t:AttachmentResponseShapeType** (section 3.1.4.3.3.3)	Contains additional properties to return for the attachments.
AttachmentIds	**t:NonEmptyArrayOfRequestAttachmentIdsType** (section 2.2.4.7)	Contains the identifiers of the attachments to return in the response.

3.1.4.3.3.3   t:AttachmentResponseShapeType Complex Type

The **AttachmentResponseShapeType** complex type identifies additional properties for the **GetAttachment** operation to return.

```
<xs:complexType name="AttachmentResponseShapeType">
  <xs:sequence>
    <xs:element name="IncludeMimeContent"
      type="xs:boolean"
      minOccurs="0"
     />
    <xs:element name="BodyType"
      type="t:BodyTypeResponseType"
      minOccurs="0"
     />
    <xs:element name="FilterHtmlContent"
      type="xs:boolean"
      minOccurs="0"
      maxOccurs="1"
     />
    <xs:element name="AdditionalProperties"
      type="t:NonEmptyArrayOfPathsToElementType"
      minOccurs="0"
     />
  </xs:sequence>
</xs:complexType>
```

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

Element name	Type	Description
IncludeMimeConten	**xs:boolean** ([XMLSCHEMA2])	Indicates whether the MIME content

Element name	Type	Description
t		of an item or attachment is returned in a response. A text value of "true" indicates that the attachment contains MIME content. If the **IncludeMimeContent** element is set to **true** in the **AttachmentResponseShapeType** complex type, the MIME content will be returned for attachments of the following item classes: **IPM.Note**, **IPM.Post**, **IPM.Appointment**, and **IPM.Contact**.<1> If the **IncludeMimeContent** element is set to **true** and the attachment is not one of the accepted item classes, the **GetAttachmentResponseMessage** element MUST return an **ErrorUnsupportedMimeConversion** response code as specified in [MS-OXWSCDATA] section 2.2.3.23.
BodyType	**t:BodyTypeResponseType** ([MS-OXWSCDATA] section 2.2.3.1)	Represents the format of the body text in a response.
FilterHtmlContent	**xs:boolean** ([XMLSCHEMA2])	Indicates whether to filter potentially unsafe HTML content from message bodies. A text value of "true" indicates that potentially unsafe HTML content is to be filtered from the attachment.
AdditionalProperties	**t:NonEmptyArrayOfPathsToElementType** ([MS-OXWSCDATA] section 2.2.4.44)	Contains additional properties to return in a response.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4   Protocol Examples

The following examples show the request and response XML for the Attachment Handling Web Service Protocol operations.

4.1   CreateAttachment Example

The following is an example of a **CreateAttachment** operation, which creates an attachment named Deleteme.txt on the specified message. The item that it is attached to, which is represented by the **ParentItemId** element, is created separately. The **Id** attribute of the **ParentItemId** element has been shortened to preserve readability.

The client constructs the request XML and sends it to the server.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
        xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
        xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:CreateAttachment>
      <m:ParentItemId Id="AAMkAGIwODEy" />
      <m:Attachments>
        <t:FileAttachment>
          <t:Name>Deleteme.txt</t:Name>
          <t:IsInline>false</t:IsInline>
          <t:IsContactPhoto>false</t:IsContactPhoto>
          <t:Content>UGxlYXNlIGRlbGV0ZSB0aGlzIGZpbGUu</t:Content>
        </t:FileAttachment>
      </m:Attachments>
    </m:CreateAttachment>
  </soap:Body>
</soap:Envelope>
```

The server constructs the response XML and sends it to the client. The **Id**, **RootItemId**, and **RootItemChangeKey** attributes of the **AttachmentId** element have been shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8" ?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
        MinorVersion="1" MajorBuildNumber="63"
        MinorBuildNumber="0"
        Version="Exchange2010"
        xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
        xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:CreateAttachmentResponse
```

```
        xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
        xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:CreateAttachmentResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Attachments>
            <t:FileAttachment>
              <t:AttachmentId Id="AAMkAGIwODEyY" RootItemId="AAMkAGIwODEyY"
  RootItemChangeKey="CQAAABYAAADL " />
            </t:FileAttachment>
          </m:Attachments>
        </m:CreateAttachmentResponseMessage>
      </m:ResponseMessages>
    </m:CreateAttachmentResponse>
  </s:Body>
</s:Envelope>
```

4.2 DeleteAttachment Example

The following is an example of a **DeleteAttachment** operation. This example deletes an attachment from an item.

The client has to have the identifier for the item that has the attachment. The client constructs the request XML and sends it to the server. The **Id** attribute of the **AttachmentId** element has been shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
      xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
      xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2010" />
  </soap:Header>
  <soap:Body>
    <m:DeleteAttachment>
      <m:AttachmentIds>
        <t:AttachmentId Id="AAMkAGY4YzQw" />
      </m:AttachmentIds>
    </m:DeleteAttachment>
  </soap:Body>
</soap:Envelope>
```

The server constructs the response XML and sends it to the client. The **RootItemId** and **RootItemChangeKey** attributes of the **RootItemId** element have been shortened to preserve readability.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="14"
        MinorVersion="1"
        MajorBuildNumber="63" MinorBuildNumber="0"
        Version="Exchange2010"
  xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
        xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
```

```
            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
      </s:Header>
      <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema">
         <m:DeleteAttachmentResponse
   xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
               xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
            <m:ResponseMessages>
               <m:DeleteAttachmentResponseMessage xsi:type="m:DeleteAttachmentResponseMessageType"
                  ResponseClass="Success">
                  <m:ResponseCode>NoError</m:ResponseCode>
                  <m:RootItemId RootItemId="AAMkAGY4YzQw=" RootItemChangeKey="CQAAABYAAA" />
               </m:DeleteAttachmentResponseMessage>
            </m:ResponseMessages>
         </m:DeleteAttachmentResponse>
      </s:Body>
   </s:Envelope>
```

4.3   GetAttachment Example

The following is an example of a **GetAttachment** operation. This example gets an attachment from the server store.

The client constructs the request XML and sends it to the server. The **Id** attribute of the **AttachmentId** element has been shortened to preserve readability.

```
   <?xml version="1.0" encoding="utf-8"?>
   <soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
         xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
         xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
      <soap:Header>
         <t:RequestServerVersion Version="Exchange2010" />
      </soap:Header>
      <soap:Body>
         <m:GetAttachment>
            <m:AttachmentIds>
               <t:AttachmentId Id="AAMkAGY4YzQw" />
            </m:AttachmentIds>
         </m:GetAttachment>
      </soap:Body>
   </soap:Envelope>
```

The server constructs the response XML and sends it to the client. In this example, there is one attachment in the attachments collection. The **Id** attribute of the **AttachmentId** element has been shortened to preserve readability. Note that the content is base64.

```
   <?xml version="1.0" encoding="utf-8"?>
   <s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
      <s:Header>
         <h:ServerVersionInfo MajorVersion="14"
            MinorVersion="1"
            MajorBuildNumber="63"
            MinorBuildNumber="0"
```

```
            Version="Exchange2010"
 xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
         xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns:xsd="http://www.w3.org/2001/XMLSchema" />
   </s:Header>
   <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xmlns:xsd="http://www.w3.org/2001/XMLSchema">
     <m:GetAttachmentResponse
 xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
         xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
       <m:ResponseMessages>
         <m:GetAttachmentResponseMessage ResponseClass="Success">
           <m:ResponseCode>NoError</m:ResponseCode>
           <m:Attachments>
             <t:FileAttachment>
               <t:AttachmentId Id="AAMkAGY4YzQw" />
               <t:Name>Deleteme.txt</t:Name>
               <t:Content>UGxlYXNlIGRlbGV0ZSB0aGlzIHRleHQu</t:Content>
             </t:FileAttachment>
           </m:Attachments>
         </m:GetAttachmentResponseMessage>
       </m:ResponseMessages>
     </m:GetAttachmentResponse>
   </s:Body>
 </s:Envelope>
```

5   Security

5.1   Security Considerations for Implementers

None.

5.2   Index of Security Parameters

None.

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6   Appendix A: Full WSDL

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

File name	Description	Section
MS-OXWSATT.wsdl	Contains the WSDL for the implementation of this protocol.	6
MS-OXWSATT-messages.xsd	Contains the XML schema message definitions that are used in this protocol.	7.1
MS-OXWSATT-types.xsd	Contains the XML schema type definitions that are used in this protocol.	7.2

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

This section contains the contents of the MS-OXWSATT.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="Exchange2013"
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns="http://schemas.microsoft.com/exchange/services/2006/messages">
      <xs:include schemaLocation="MS-OXWSATT-messages.xsd" />
    </xs:schema>
    <xs:schema id="types" elementFormDefault="qualified" version="Exchange2013"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:tns="http://schemas.microsoft.com/exchange/services/2006/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
      <!-- Add global elements and types from types.xsd -->
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="CreateAttachment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:CreateAttachmentSoapIn"/>
      <wsdl:output message="tns:CreateAttachmentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteAttachment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:DeleteAttachmentSoapIn"/>
      <wsdl:output message="tns:DeleteAttachmentSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="GetAttachment" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
      <wsdl:input message="tns:GetAttachmentSoapIn"/>
      <wsdl:output message="tns:GetAttachmentSoapOut"/>
```

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

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

7 Appendix B: Full XML Schema

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

Schema name	Prefix	Section
Messages schema	m:	7.1
Types schema	t:	7.2

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

7.1 Messages Schema

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

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

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

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema 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"
elementFormDefault="qualified" version="Exchange2013" id="messages">
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:import namespace="http://schemas.microsoft.com/exchange/services/2006/types"
schemaLocation="MS-OXWSATT-types.xsd"/>
  <xs:complexType name="AttachmentInfoResponseMessageType">
    <xs:complexContent>
      <xs:extension base="m:ResponseMessageType">
        <xs:sequence>
          <xs:element name="Attachments" type="t:ArrayOfAttachmentsType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CreateAttachment" type="m:CreateAttachmentType"/>
  <xs:element name="CreateAttachmentResponse" type="m:CreateAttachmentResponseType"/>
  <xs:complexType name="CreateAttachmentResponseType">
    <xs:complexContent>
      <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="CreateAttachmentType">
    <xs:complexContent>
      <xs:extension base="m:BaseRequestType">
```

```
            <xs:sequence>
              <xs:element name="ParentItemId" type="t:ItemIdType"/>
              <xs:element name="Attachments" type="t:NonEmptyArrayOfAttachmentsType"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="DeleteAttachmentType">
        <xs:complexContent>
          <xs:extension base="m:BaseRequestType">
            <xs:sequence>
              <xs:element name="AttachmentIds" type="t:NonEmptyArrayOfRequestAttachmentIdsType"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="DeleteAttachment" type="m:DeleteAttachmentType"/>
      <xs:complexType name="DeleteAttachmentResponseType">
        <xs:complexContent>
          <xs:extension base="m:BaseResponseMessageType"/>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="DeleteAttachmentResponse" type="m:DeleteAttachmentResponseType"/>
      <xs:complexType name="DeleteAttachmentResponseMessageType">
        <xs:complexContent>
          <xs:extension base="m:ResponseMessageType">
            <xs:sequence>
              <xs:element name="RootItemId" type="t:RootItemIdType" minOccurs="0"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:complexType name="GetAttachmentType">
        <xs:complexContent>
          <xs:extension base="m:BaseRequestType">
            <xs:sequence>
              <xs:element name="AttachmentShape" type="t:AttachmentResponseShapeType"
 minOccurs="0"/>
              <xs:element name="AttachmentIds" type="t:NonEmptyArrayOfRequestAttachmentIdsType"/>
            </xs:sequence>
          </xs:extension>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="GetAttachment" type="m:GetAttachmentType"/>
      <xs:complexType name="GetAttachmentResponseType">
        <xs:complexContent>
          <xs:extension base="m:BaseResponseMessageType"/>
        </xs:complexContent>
      </xs:complexType>
      <xs:element name="GetAttachmentResponse" type="m:GetAttachmentResponseType"/>
    </xs:schema>
```

7.2 Types Schema

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

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

File name	Defining specification
MS-OXWSCONT-types.xsd	[MS-OXWSCONT] section 6.2
MS-OXWSMSG-types.xsd	[MS-OXWSMSG] section 7.1
MS-OXWSMTGS-types.xsd	[MS-OXWSMTGS] section 7.2
MS-OXWSPOST-types.xsd	[MS-OXWSPOST] section 7.2

```xml
<?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="Exchange2013" id="types">
  <xs:import namespace="http://www.w3.org/XML/1998/namespace"/>
  <xs:include schemaLocation="MS-OXWSCONT-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSMSG-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSMTGS-types.xsd"/>
  <xs:include schemaLocation="MS-OXWSPOST-types.xsd"/>
  <xs:complexType name="ArrayOfAttachmentsType">
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:element name="ItemAttachment" type="t:ItemAttachmentType"/>
      <xs:element name="FileAttachment" type="t:FileAttachmentType"/>
    </xs:choice>
  </xs:complexType>
  <xs:complexType name="AttachmentIdType">
    <xs:complexContent>
      <xs:extension base="t:RequestAttachmentIdType">
        <xs:attribute name="RootItemId" type="xs:string" use="optional"/>
        <xs:attribute name="RootItemChangeKey" type="xs:string" use="optional"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="AttachmentResponseShapeType">
    <xs:sequence>
      <xs:element name="IncludeMimeContent" type="xs:boolean" minOccurs="0"/>
      <xs:element name="BodyType" type="t:BodyTypeResponseType" minOccurs="0"/>
      <xs:element name="FilterHtmlContent" type="xs:boolean" minOccurs="0"/>
      <xs:element name="AdditionalProperties" type="t:NonEmptyArrayOfPathsToElementType"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="AttachmentType">
    <xs:sequence>
      <xs:element name="AttachmentId" type="t:AttachmentIdType" minOccurs="0"/>
      <xs:element name="Name" type="xs:string" minOccurs="0"/>
      <xs:element name="ContentType" type="xs:string" minOccurs="0"/>
      <xs:element name="ContentId" type="xs:string" minOccurs="0"/>
      <xs:element name="ContentLocation" type="xs:string" minOccurs="0"/>
      <xs:element name="Size" type="xs:int" minOccurs="0"/>
      <xs:element name="LastModifiedTime" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="IsInline" type="xs:boolean" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
```

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```xml
<xs:complexType name="FileAttachmentType">
  <xs:complexContent>
    <xs:extension base="t:AttachmentType">
      <xs:sequence>
        <xs:element name="IsContactPhoto" type="xs:boolean" minOccurs="0"/>
        <xs:element name="Content" type="xs:base64Binary" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ItemAttachmentType">
  <xs:complexContent>
    <xs:extension base="t:AttachmentType">
      <xs:choice minOccurs="0">
        <xs:element name="Item" type="t:ItemType"/>
        <xs:element name="Message" type="t:MessageType"/>
        <xs:element name="CalendarItem" type="t:CalendarItemType"/>
        <xs:element name="Contact" type="t:ContactItemType"/>
        <xs:element name="MeetingMessage" type="t:MeetingMessageType"/>
        <xs:element name="MeetingRequest" type="t:MeetingRequestMessageType"/>
        <xs:element name="MeetingResponse" type="t:MeetingResponseMessageType"/>
        <xs:element name="MeetingCancellation" type="t:MeetingCancellationMessageType"/>
        <xs:element name="Task" type="t:TaskType"/>
        <xs:element name="PostItem" type="t:PostItemType"/>
      </xs:choice>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="NonEmptyArrayOfRequestAttachmentIdsType">
  <xs:choice maxOccurs="unbounded">
    <xs:element name="AttachmentId" type="t:RequestAttachmentIdType"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="RequestAttachmentIdType">
  <xs:complexContent>
    <xs:extension base="t:BaseItemIdType">
      <xs:attribute name="Id" type="xs:string" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="RootItemIdType">
  <xs:complexContent>
    <xs:extension base="t:BaseItemIdType">
      <xs:attribute name="RootItemId" type="xs:string" use="required"/>
      <xs:attribute name="RootItemChangeKey" type="xs:string" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:schema>
```

8 Appendix C: Product Behavior

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

- Microsoft® Exchange Server 2007

- Microsoft® Exchange Server 2010

- Microsoft® Exchange Server 2013

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.

<1> Section 3.1.4.3.3.3: IPM.Contact MIME content will not be returned with Exchange 2007, Exchange 2010, and Exchange 2010 SP1.

9 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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