[MS-OXWSARCH]:
Archiving Web Service Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
07/16/2012	0.1	New	Released new document.
10/08/2012	1.0	Major	Significantly changed the technical content.
02/11/2013	1.1	Minor	Clarified the meaning of the technical content.
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04/30/2014	1.2	Minor	Clarified the meaning of the technical content.
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10/30/2014	1.3	No change	No changes to the meaning, language, or formatting of the technical content.

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1 Introduction

The Archiving Web Service Protocol enables clients to use a **web service** to archive items in a **mailbox**.

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 [RFC2119]. Sections 1.5 and 1.9 are also normative but do not contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

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

endpoint
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)
Inbox folder
mailbox
SOAP
SOAP action
SOAP body
SOAP header
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
web server
web service
Web Services Description Language (WSDL)
WSDL message
WSDL operation
WSDL port type
XML namespace
XML namespace prefix
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 defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

References to Microsoft Open Specification documents do not include a publishing year because links are to the latest version of the 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.

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

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

[MS-OXWSFOLD] Microsoft Corporation, "Folders and Folder Permissions Web Service Protocol".

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

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

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

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

[RFC3066] Alvestrand, H., "Tags for the Identification of Languages", BCP 47, 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

[WSIBASIC] Ballinger, K., Ehnebuske, D., Gudgin, M., et al., Eds., "Basic Profile Version 1.0", Final Material, April 2004, http://www.ws-i.org/Profiles/BasicProfile-1.0-2004-04-16.html

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

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

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

1.2.2 Informative References

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

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

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

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

1.3 Overview

Archive mailboxes are secondary mailboxes that are associated with a user. Archive mailboxes are typically used to manage email storage limits. For example, older email items might periodically be moved from the **Inbox folder** to the archive mailbox.

This protocol provides operations to archive a set of mail items from a primary mailbox. Archiving items in the Inbox folder in this way preserves the folder hierarchy of the items. In addition, archive

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mailboxes can be stored either locally on a client or remotely, in a way that is mostly opaque to a user, by using a folder path to point to the contents of the archive.

1.4 Relationship to Other Protocols

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

This protocol uses **SOAP**, as described in [SOAP1.1], to specify the structure information that is exchanged between the client and the server. This protocol uses the **XML schema**, as described in [XMLSCHEMA1] and [XMLSCHEMA2], to describe the message content that is 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 layering diagram.

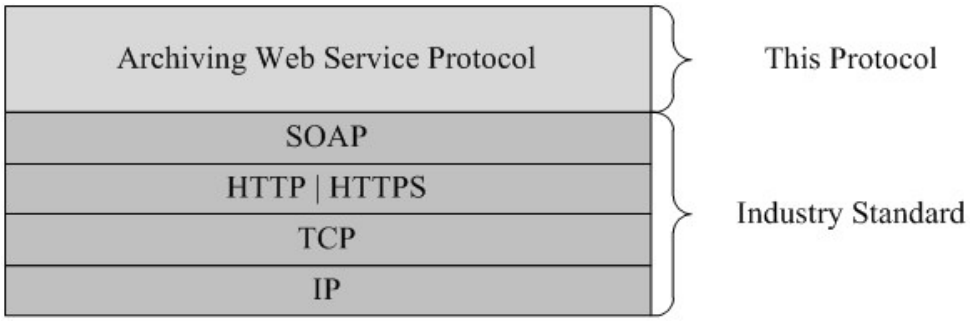

Figure 1: This protocol in relation to other protocols

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 Lookup SOAP-Based Web Service Protocol, as described in [MS-OXWSADISC], or the Autodiscover Publishing and Lookup Protocol, as described in [MS-OXDSCLI], forms 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

This protocol is applicable to environments that use web services to implement archiving from a user's mailbox. This protocol is applicable to all SOAP-based clients, as described in [SOAP1.1].

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol uses SOAP 1.1, as described in section 2.1.
- **Protocol Versions:** This protocol describes only one **WSDL port type** version. The **t:RequestServerVersion** element, as described in [MS-OXWSCDATA] section 2.2.4.7, identifies

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the WSDL port type version of the request. The **t:ServerVersionInfo** element, as described in [MS-OXWSCDATA] section 2.2.4.8 identifies the version of the server responding to the request.

- **Security and Authentication Methods:** This protocol relies on the web server that is hosting it to perform authentication.
- **Localization:** This protocol uses the **MailboxCulture** element, as described in [MS-OXWSCDATA] section 2.2.4.39, to specify the culture of a mailbox.
- **Capability Negotiation**: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

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2 Messages

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

2.1 Transport

This protocol uses SOAP 1.1, as specified in [SOAP1.1].

The protocol MUST support SOAP over HTTP, as specified in [RFC2616]. The protocol SHOULD use secure communications by means of HTTPS, as specified in [RFC2818].

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses XML schema, as specified in [XMLSCHEMA1] and [XMLSCHEMA2], and WSDL, as specified in [WSDL].

2.2.1 Namespaces

This specification defines and references various **XML namespaces** 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
m	http://schemas.microsoft.com/exchange/services/2006/messages	
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
t	http://schemas.microsoft.com/exchange/services/2006/types	
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsi	http://ws-i.org/schemas/conformanceClaim/	[WSIBASIC]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]

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.

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2.2.4 Complex Types

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

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.

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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.

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product 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 and present.

3.1 ExchangeServicePortType Server Details

This protocol defines a single WSDL port type with two operations. These operations enable clients to archive items in a mailbox and create a path to the archive location.

3.1.1 Abstract Data Model

None.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

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

Operation	Description
ArchiveItem	The **ArchiveItem** operation moves items from the primary mailbox to the archive mailbox.
CreateFolderPath	The **CreateFolderPath** operation creates a **Uniform Resource Identifier (URI)** that points to the storage location for the archive mailbox.

3.1.4.1 ArchiveItem

The **ArchiveItem** operation moves items from the primary mailbox to the archive mailbox.

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

```
<wsdl:operation name="ArchiveItem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:ArchiveItemSoapIn"/>
  <wsdl:output message="m:ArchiveItemSoapOut"/>
</wsdl:operation>
```


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

```
<wsdl:operation name="ArchiveItem" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ArchiveItem"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:ArchiveItemSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:ArchiveItemSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:ArchiveItemSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="ArchiveItemResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:ArchiveItemSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

The protocol client sends an **ArchiveItemSoapIn** request WSDL message, as specified in section 3.1.4.1.1.1, and the protocol server responds with an **ArchiveItemSoapOut** response message, as specified in section 3.1.4.1.1.2.

3.1.4.1.1 Messages

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

Message	Description
ArchiveItemSoapIn	Specifies the request to archive items.
ArchiveItemSoapOut	Specifies the response to the request to archive items.

3.1.4.1.1.1 ArchiveItemSoapIn

The **ArchiveItemSoapIn** WSDL message specifies the request to archive items.

The following is the **ArchiveItemSoapIn** WSDL message specification.

```
<wsdl:message name="ArchiveItemSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:ArchiveItem"/>
  <wsdl:part name="Impersonation" element="t:ExchangeImpersonation"/>
  <wsdl:part name="MailboxCulture" element="t:MailboxCulture"/>
  <wsdl:part name="RequestVersion" element="t:RequestServerVersion"/>
</wsdl:message>
```

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

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

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Part name	Element/type	Description
request	**ArchiveItem** (section 3.1.4.1.2.1)	Specifies the **SOAP body** of the request to archive items.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a **SOAP header** that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to use when accessing the mailbox. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **ArchiveItem** operation request.

3.1.4.1.1.2 ArchiveItemSoapOut

The **ArchiveItemSoapOut** WSDL message specifies the response to the **ArchiveItem** operation request.

The following is the **ArchiveItemSoapOut** WSDL message specification.

```
<wsdl:message name="ArchiveItemSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="ArchiveItemResult" element="m:ArchiveItemResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
ArchiveItemResult	**ArchiveItemResponse** (section 3.1.4.1.2.2)	Specifies the SOAP body of the response to an **ArchiveItem** operation request.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a SOAP header that identifies the server version for the response.

A successful **ArchiveItem** operation request returns an **ArchiveItemResponse** element, as specified in section 3.1.4.1.3.2, with the **ResponseClass** attribute of the **ArchiveItemResponseMessage** element set to "Success". The **ResponseCode** element of the **ArchiveItemResponseMessage** element is set to "NoError". The **ArchiveItemResponseMessage** element is a child element of the **ArrayOfResponseMessagesType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.10.

If the **ArchiveItem** operation request is not successful, it returns an **ArchiveItemResponse** element with the **ResponseClass** attribute of the **ArchiveItemResponseMessage** element set to

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"Error". The **ResponseCode** element of the **ArchiveItemResponseMessage** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.23.

3.1.4.1.2 Elements

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

Element	Description
ArchiveItem	The input data for the **ArchiveItem** WSDL operation.
ArchiveItemResponse	The result data for the **ArchiveItem** WSDL operation.

3.1.4.1.2.1 ArchiveItem

The **ArchiveItem** element specifies the input data for the **ArchiveItem** WSDL operation.

```
<xs:element name="ArchiveItem" type="m:ArchiveItemType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.1.2.2 ArchiveItemResponse

The **ArchiveItemResponse** element specifies the result data for the **ArchiveItem** WSDL operation.

```
<xs:element name="ArchiveItemResponse" type="m:ArchiveItemResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

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	Description
ArchiveItemResponseType	Specifies the response to the **ArchiveItem** operation (section 3.1.4.1).
ArchiveItemType	Specifies a request to move items from the primary mailbox to an archive folder.

3.1.4.1.3.1 ArchiveItemType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **ArchiveItemType** complex type specifies a request to move items from the primary mailbox to an archive folder. This type extends the **BaseRequestType** complex type, as described in [MS-OXWSCDATA] section 2.2.4.15.

```
<xs:complexType name="ArchiveItemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
```


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```
        <xs:element name="ArchiveSourceFolderId" type="t:TargetFolderIdType"/>
        <xs:element name="ItemIds" type="t:NonEmptyArrayOfBaseItemIdsType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ArchiveSourceFolderId: An element of type **TargetFolderIdType**, as defined in [MS-OXWSFOLD] section 2.2.4.14, that specifies the identifier of the source folder.

ItemIds: An element of type **NonEmptyArrayOfBaseItemIdsType**, as defined in [MS-OXWSCORE] section 2.2.4.28, that specifies the item identifiers.

3.1.4.1.3.2 ArchiveItemResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **ArchiveItemResponseType** complex type specifies the response for an **ArchiveItem** operation. This type extends the **BaseResponseMessageType** complex type, as described in [MS-OXWSCDATA] section 2.2.4.16.

```
<xs:complexType name="ArchiveItemResponseType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.1.4 Simple Types

None.

3.1.4.1.5 Attributes

None.

3.1.4.1.6 Groups

None.

3.1.4.1.7 Attribute Groups

None.

3.1.4.2 CreateFolderPath

The **CreateFolderPath** operation creates a Uniform Resource Identifier (URI) that points to the storage location for the archive mailbox.

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

```
<wsdl:operation name="CreateFolderPath" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input message="m:CreateFolderPathSoapIn"/>
  <wsdl:output message="m:CreateFolderPathSoapOut"/>
```


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

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

```
<wsdl:operation name="CreateFolderPath" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateFolderPath"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  <wsdl:input>
    <soap:header message="m:CreateFolderPathSoapIn" part="Impersonation" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:CreateFolderPathSoapIn" part="MailboxCulture" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:CreateFolderPathSoapIn" part="RequestVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:CreateFolderPathSoapIn" part="TimeZoneContext" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:body use="literal" parts="request"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" parts="CreateFolderPathResult"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
    <soap:header message="m:CreateFolderPathSoapOut" part="ServerVersion" use="literal"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"/>
  </wsdl:output>
</wsdl:operation>
```

The protocol client sends a **CreateFolderPathSoapIn** request WSDL message, as specified in section 3.1.4.2.1.1, and the protocol server responds with a **CreateFolderPathSoapOut** response message, as specified in section 3.1.4.2.1.2.

3.1.4.2.1 Messages

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

Message	Description
CreateFolderPathSoapIn	Specifies the request to create a folder path.
CreateFolderPathSoapOut	Specifies the response to the **CreateFolderPathSoapIn** request.

3.1.4.2.1.1 CreateFolderPathSoapIn

The **CreateFolderPathSoapIn** WSDL message specifies the request to create a folder path.

The following is the **CreateFolderPathSoapIn** WSDL message specification.

```
<wsdl:message name="CreateFolderPathSoapIn" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="request" element="m:CreateFolderPath"/>
  <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"/>
```


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```
</wsdl:message>
```

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

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

Part name	Element/type	Description
request	**CreateFolderPath** (section 3.1.4.2.2.1)	Specifies the SOAP body of the request to create a folder path.
Impersonation	**ExchangeImpersonation** ([MS-OXWSCDATA] section 2.2.3.3)	Specifies a SOAP header that identifies the user whom the client is impersonating.
MailboxCulture	**MailboxCulture** ([MS-OXWSCDATA] section 2.2.4.39)	Specifies a SOAP header that identifies the culture to use to access the mailbox. The cultures are defined in [RFC3066].
RequestVersion	**RequestServerVersion** ([MS-OXWSCDATA] section 2.2.3.9)	Specifies a SOAP header that identifies the schema version for the **CreateFolderPath** operation request.
TimeZoneContext	**TimeZoneContext** ([MS-OXWSGTZ] section 2.2.3.4)	Specifies a SOAP header that identifies the time zone to use for all responses from the server. All times that are returned from the server will be converted to the specified time zone.

3.1.4.2.1.2 CreateFolderPathSoapOut

The **CreateFolderSoapOut** WSDL message specifies the response to the **CreateFolderPathSoapIn** request.

The following is the **CreateFolderPathSoapOut** WSDL message specification.

```
<wsdl:message name="CreateFolderPathSoapOut" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:part name="CreateFolderPathResult" element="m:CreateFolderPathResponse"/>
  <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
</wsdl:message>
```

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

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

Part name	Element/type	Description
CreateFolderPathResult	**CreateFolderPathResponse** (section 3.1.4.2.2.2)	Represents the result of this operation.
ServerVersion	**ServerVersionInfo** ([MS-OXWSCDATA] section 2.2.3.10)	Specifies a SOAP header that identifies the server version for the response.

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A successful **CreateFolderPath** operation request returns a **CreateFolderPathResponse** element with the **ResponseClass** attribute of the **CreateFolderPathResponseMessage** element set to "Success". The **ResponseCode** element of the **CreateFolderPathResponseMessage** element is set to "NoError". The **CreateFolderPathResponseMessage** element is a child element of the **ArrayofResponseMessagesType** complex type, as specified in [MS-OXWSCDATA] section 2.2.4.10.

If the **CreateFolderPath** operation request is not successful, it returns a **CreateFolderPathResponse** element with the **ResponseClass** attribute of the **CreateFolderPathResponseMessage** element set to "Error". The **ResponseCode** element of the **CreateFolderPathResponseMessage** element is set to one of the common errors defined in [MS-OXWSCDATA] section 2.2.5.23.

3.1.4.2.2 Elements

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

Element	Description
CreateFolderPath	The input data for the **CreateFolderPath** WSDL operation.
CreateFolderPathResponse	The result data for the **CreateFolderPath** WSDL operation.

3.1.4.2.2.1 CreateFolderPath

The **CreateFolderPath** element specifies the input data for the **CreateFolderPath** WSDL operation.

```
<xs:element name="CreateFolderPath" type="m:CreateFolderPathType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

3.1.4.2.2.2 CreateFolderPathResponse

The **CreateFolderPathResponse** element specifies the result data for the **CreateFolderPath** WSDL operation.

```
<xs:element name="CreateFolderPathResponse" type="m:CreateFolderPathResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

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	Description
CreateFolderPathResponseType	Specifies the response for the **CreateFolderPath** operation (section 3.1.4.2).
CreateFolderPathType	Specifies a request to create a folder path.

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3.1.4.2.3.1 CreateFolderPathType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **CreateFolderPathType** complex type specifies a request to create a folder path. This type extends the **BaseRequestType** complex type, as described in [MS-OXWSCDATA] section 2.2.4.15.

```
<xs:complexType name="CreateFolderPathType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseRequestType">
      <xs:sequence>
        <xs:element name="ParentFolderId" type="t:TargetFolderIdType"/>
        <xs:element name="RelativeFolderPath" type="t:NonEmptyArrayOfFoldersType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

ParentFolderId: An element of type **TargetFolderIdType**, as defined in [MS-OXWSFOLD] section 2.2.4.14, that specifies the parent folder identifier.

RelativeFolderPath: An element of type **NonEmptyArrayOfFoldersType**, as defined in [MS-OXWSFOLD] section 3.1.4.2.3.3, that specifies the relative folder path.

3.1.4.2.3.2 CreateFolderPathResponseType

Namespace: http://schemas.microsoft.com/exchange/services/2006/messages

The **CreateFolderPathResponseType** complex type specifies the response for the **CreateFolderPath** operation. This type extends the **BaseResponseMessageType** complex type, as described in [MS-OXWSCDATA] section 2.2.4.16.

```
<xs:complexType name="CreateFolderPathResponseType"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexContent mixed="false">
    <xs:extension base="m:BaseResponseMessageType"/>
  </xs:complexContent>
</xs:complexType>
```

3.1.4.2.4 Simple Types

None.

3.1.4.2.5 Attributes

None.

3.1.4.2.6 Groups

None.

3.1.4.2.7 Attribute Groups

None.

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3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

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4 Protocol Examples

4.1 Archiving an Item

This example of the **ArchiveItem** operation, as defined in section 3.1.4.1, shows how a client can archive items from the Inbox folder.

```
<?xml version="1.0" encoding="utf-8" ?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
               xmlns:xsd="http://www.w3.org/2001/XMLSchema"
               xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
               xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
               xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2013"/>
  </soap:Header>
  <soap:Body>
    <m:ArchiveItem>
      <m:ArchiveSourceFolderId>
        <t:DistinguishedFolderId Id="inbox"/>
      </m:ArchiveSourceFolderId>
      <m:ItemIds>
        <t:ItemId
Id="AQMkAGVmNDAyODMwLTNkMzMALTRhMGQtYTRlOS1kODU3NjkwMAE2MGQARgAAA2L1bNf8ooZNtO4guk3auRYHALkzP
vMoJY1FjWrkRuQQcK0AAAMOAAAAuTM+8ygljUWNauRG5BBwrQAAAxoAAAA="
ChangeKey="CQAAABYAAAC5Mz7zKCWNRY1q5EbkEHCtAAAAAAB7"/>
      </m:ItemIds>
    </m:ArchiveItem>
  </soap:Body>
</soap:Envelope>
```

The server constructs the following successful response to the request and sends it to the client.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
    <h:ServerVersionInfo MajorVersion="15"
                         MinorVersion="0"
                         MajorBuildNumber="526"
                         MinorBuildNumber="0"
                         Version="Exchange2013"
              xmlns:h="http://schemas.microsoft.com/exchange/services/2006/types"
              xmlns="http://schemas.microsoft.com/exchange/services/2006/types"
              xmlns:xsd="http://www.w3.org/2001/XMLSchema"
              xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:ArchiveItemResponse
xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:ArchiveItemResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Items/>
        </m:ArchiveItemResponseMessage>
      </m:ResponseMessages>
```


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```
    </m:ArchiveItemResponse>
  </s:Body>
</s:Envelope>
```

4.2 Creating a Folder Path

This example of the **CreateFolderPath** operation, as defined in section 3.1.4.2, shows how the client creates a folder path. This example creates three folders in the Inbox folder. Each folder is a child of the folder that precedes it.

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
           xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
           xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages">
  <soap:Header>
    <t:RequestServerVersion Version="Exchange2013" />
    <t:MailboxCulture>en-US</t:MailboxCulture>
    <t:TimeZoneContext>
       <t:TimeZoneDefinition Id="GMT Standard Time"/>
    </t:TimeZoneContext>
  </soap:Header>
  <soap:Body >
    <m:CreateFolderPath>
      <m:ParentFolderId>
         <t:DistinguishedFolderId Id="inbox"/>
      </m:ParentFolderId>
      <m:RelativeFolderPath>
        <t:Folder>
          <t:DisplayName>MyFirstLevelFolder</t:DisplayName>
        </t:Folder>
        <t:Folder>
          <t:DisplayName>MySecondLevelFolder</t:DisplayName>
        </t:Folder>
        <t:Folder>
          <t:DisplayName>MyThirdLevelFolder</t:DisplayName>
        </t:Folder>
      </m:RelativeFolderPath>
    </m:CreateFolderPath>
  </soap:Body>
</soap:Envelope>
```

The server constructs the following successful response to the request. In this response, the server creates three folders in the Inbox folder.

```
<?xml version="1.0" encoding="utf-8"?>
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
      <h:ServerVersionInfo MajorVersion="15"
                           MinorVersion="0"
                           MajorBuildNumber="526"
                           MinorBuildNumber="0"
                           Version="Exchange2013"
           xmlns:h=" http://schemas.microsoft.com/exchange/services/2006/types"
           xmlns=http://schemas.microsoft.com/exchange/services/2006/types
           xmlns=:xsd=http://www.w3.org/2001/XMLSchema"
           xmlns=:xsi=http://www.w3.org/2001/XMLSchema-instance/>
```


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```
  </s:Header>
  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <m:CreateFolderPathResponse
          xmlns:m=http://schemas.microsoft.com/exchange/services/2006/messages
          xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types">
      <m:ResponseMessages>
        <m:CreateFolderPathResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
            <m:Folders>
              <t:Folder>
                <t:FolderId
Id="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGY1Yzc3ZGY0MwAuAAAAAADhS2QUsLGoTbY+lhGktZkcAQCYn
YF59gJhQaoeGgGqm4QrAABqxisXAAA=" ChangeKey="AQAAABYAAACYnYF59gJhQaoeGgGqm4QrAABq6Wxb"/>
                <t:DisplayName>MyFirstLevelFolder</t:DisplayName>
                <t:TotalCount>0</t:TotalCount>
                <t:ChildFolderCount>0</t:ChildFolderCount>
                <t:UnreadCount>0</t:UnreadCount>
              </t:Folder>
            </m:Folders>
        </m:CreateFolderPathResponseMessage>
        <m:CreateFolderPathResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Folders>
            <t:Folder>
              <t:FolderId
Id="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGY1Yzc3ZGY0MwAuAAAAAADhS2QUsLGoTbY+lhGktZkcAQCYn
YF59gJhQaoeGgGqm4QrAABqxisYAAA=" ChangeK="AQAAABYAAACYnYF59gJhQaoeGgGqm4QrAABq6Wxg"/>
              <t:DisplayName>MySecondLevelFolder</t:DisplayName>
              <t:TotalCount>0</t:TotalCount>
              <t:ChildFolderCount>0</t:ChildFolderCount>
              <t:UnreadCount>0</t:UnreadCount>
            </t:Folder>
          </m:Folders>
        </m:CreateFolderPathResponseMessage>
        <m:CreateFolderPathResponseMessage ResponseClass="Success">
          <m:ResponseCode>NoError</m:ResponseCode>
          <m:Folders>
            <t:Folder>
              <t:FolderId
Id="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGY1Yzc3ZGY0MwAuAAAAAADhS2QUsLGoTbY+lhGktZkcAQCYn
YF59gJhQaoeGgGqm4QrAABqxisZAAA=" ChangeKey="AQAAABYAAACYnYF59gJhQaoeGgGqm4QrAABq6Wxl"/>
              <t:DisplayName>MyThirdLevelFolder</t:DisplayName>
              <t:TotalCount>0</t:TotalCount>
              <t:ChildFolderCount>0</t:ChildFolderCount>
              <t:UnreadCount>0</t:UnreadCount>
            </t:Folder>
          </m:Folders>
        </m:CreateFolderPathResponseMessage>
      </m:ResponseMessages>
    </m:CreateFolderPathResponse>
  </s:Body>
</s:Envelope>
```


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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

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2013" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:include schemaLocation="MS-OXWSARCH-messages.xsd"/>
    </xs:schema>
  </wsdl:types>
  <wsdl:portType name="ExchangeServicePortType">
    <wsdl:operation name="ArchiveItem">
      <wsdl:input message="m:ArchiveItemSoapIn"/>
      <wsdl:output message="m:ArchiveItemSoapOut"/>
    </wsdl:operation>
    <wsdl:operation name="CreateFolderPath">
      <wsdl:input message="m:CreateFolderPathSoapIn"/>
      <wsdl:output message="m:CreateFolderPathSoapOut"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="ExchangeServiceBinding" type="m: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 transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="ArchiveItem">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/ArchiveItem"/>
      <wsdl:input>
        <soap:header message="m:ArchiveItemSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="m:ArchiveItemSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="m:ArchiveItemSoapIn" part="RequestVersion" use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal" parts="ArchiveItemResult"/>
        <soap:header message="m:ArchiveItemSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="CreateFolderPath">
      <soap:operation
soapAction="http://schemas.microsoft.com/exchange/services/2006/messages/CreateFolderPath"/>
      <wsdl:input>
        <soap:header message="m:CreateFolderPathSoapIn" part="Impersonation" use="literal"/>
        <soap:header message="m:CreateFolderPathSoapIn" part="MailboxCulture" use="literal"/>
        <soap:header message="m:CreateFolderPathSoapIn" part="RequestVersion" use="literal"/>
        <soap:header message="m:CreateFolderPathSoapIn" part="TimeZoneContext"
use="literal"/>
        <soap:body use="literal" parts="request"/>
      </wsdl:input>
      <wsdl:output>
```


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```
        <soap:body use="literal" parts="CreateFolderPathResult"/>
        <soap:header message="m:CreateFolderPathSoapOut" part="ServerVersion" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:message name="ArchiveItemSoapIn">
    <wsdl:part name="request" element="m:ArchiveItem"/>
    <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="ArchiveItemSoapOut">
    <wsdl:part name="ArchiveItemResult" element="m:ArchiveItemResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
  <wsdl:message name="CreateFolderPathSoapIn">
    <wsdl:part name="request" element="m:CreateFolderPath"/>
    <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="CreateFolderPathSoapOut">
    <wsdl:part name="CreateFolderPathResult" element="m:CreateFolderPathResponse"/>
    <wsdl:part name="ServerVersion" element="t:ServerVersionInfo"/>
  </wsdl:message>
</wsdl:definitions>
```


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7 Appendix B: Full XML Schema

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

MS-OXWSARCH-messages.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 and messages schema file for this protocol.

File name	Defining specification
MS-OXWSCDATA-messages.xsd	[MS-OXWSCDATA] section 7.1
MS-OXWSFOLD-types.xsd	[MS-OXWSFOLD] section 7.2

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

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:m="http://schemas.microsoft.com/exchange/services/2006/messages"
xmlns:t="http://schemas.microsoft.com/exchange/services/2006/types"
elementFormDefault="qualified"
targetNamespace="http://schemas.microsoft.com/exchange/services/2006/messages"
version="Exchange2013" id="messages" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:include schemaLocation="MS-OXWSCDATA-messages.xsd"/>
  <xs:import schemaLocation="MS-OXWSFOLD-types.xsd"
namespace="http://schemas.microsoft.com/exchange/services/2006/types"/>
  <xs:complexType name="ArchiveItemType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="ArchiveSourceFolderId" type="t:TargetFolderIdType"/>
          <xs:element name="ItemIds" type="t:NonEmptyArrayOfBaseItemIdsType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArchiveItem" type="m:ArchiveItemType"/>
  <xs:complexType name="ArchiveItemResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseResponseMessageType"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="ArchiveItemResponse" type="m:ArchiveItemResponseType"/>
  <xs:complexType name="CreateFolderPathType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseRequestType">
        <xs:sequence>
          <xs:element name="ParentFolderId" type="t:TargetFolderIdType"/>
          <xs:element name="RelativeFolderPath" type="t:NonEmptyArrayOfFoldersType"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CreateFolderPath" type="m:CreateFolderPathType"/>
  <xs:complexType name="CreateFolderPathResponseType">
    <xs:complexContent mixed="false">
      <xs:extension base="m:BaseResponseMessageType"/>
```


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```
      </xs:complexContent>
    </xs:complexType>
    <xs:element name="CreateFolderPathResponse" type="m:CreateFolderPathResponseType"/>
  </xs:schema>
```


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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 2013
- Microsoft Outlook 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.

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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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