

[MS-OXWSARCH]:

Archiving Web Service Protocol

Intellectual Property Rights Notice for Open Specifications Documentation

- **Technical Documentation.** Microsoft publishes Open Specifications documentation for protocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
- **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL's, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that may cover your implementations of the technologies described in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft [Open Specification Promise](#) or the [Community Promise](#). If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
- **Trademarks.** The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit www.microsoft.com/trademarks.
- **Fictitious Names.** The example companies, organizations, products, domain names, e-mail addresses, logos, people, places, and events depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

Reservation of Rights. All other rights are reserved, and this notice does not grant any rights other than specifically described above, whether by implication, estoppel, or otherwise.

Tools. The Open Specifications do not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments you are free to take advantage of them. Certain Open Specifications are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.

Revision Summary

Date	Revision History	Revision Class	Comments
7/16/2012	0.1	New	Released new document.
10/8/2012	1.0	Major	Significantly changed the technical content.
2/11/2013	1.1	Minor	Clarified the meaning of the technical content.
7/26/2013	1.1	No Change	No changes to the meaning, language, or formatting of the technical content.
11/18/2013	1.1	No Change	No changes to the meaning, language, or formatting of the technical content.
2/10/2014	1.1	No Change	No changes to the meaning, language, or formatting of the technical content.
4/30/2014	1.2	Minor	Clarified the meaning of the technical content.
7/31/2014	1.3	Minor	Clarified the meaning of the technical content.
10/30/2014	1.3	No Change	No changes to the meaning, language, or formatting of the technical content.
3/16/2015	2.0	Major	Significantly changed the technical content.
5/26/2015	2.0	No Change	No changes to the meaning, language, or formatting of the technical content.
9/14/2015	3.0	Major	Significantly changed the technical content.

Table of Contents

1	Introduction	5
1.1	Glossary	5
1.2	References	6
1.2.1	Normative References	6
1.2.2	Informative References	7
1.3	Overview	7
1.4	Relationship to Other Protocols	7
1.5	Prerequisites/Preconditions	8
1.6	Applicability Statement	8
1.7	Versioning and Capability Negotiation	8
1.8	Vendor-Extensible Fields	9
1.9	Standards Assignments.....	9
2	Messages.....	10
2.1	Transport	10
2.2	Common Message Syntax	10
2.2.1	Namespaces	10
2.2.2	Messages.....	10
2.2.3	Elements	10
2.2.4	Complex Types.....	11
2.2.5	Simple Types	11
2.2.6	Attributes	11
2.2.7	Groups	11
2.2.8	Attribute Groups.....	11
3	Protocol Details	12
3.1	ExchangeServicePortType Server Details.....	12
3.1.1	Abstract Data Model.....	12
3.1.2	Timers	12
3.1.3	Initialization	12
3.1.4	Message Processing Events and Sequencing Rules	12
3.1.4.1	ArchiveItem	12
3.1.4.1.1	Messages	13
3.1.4.1.1.1	ArchiveItemSoapIn	13
3.1.4.1.1.2	ArchiveItemSoapOut	14
3.1.4.1.2	Elements.....	15
3.1.4.1.2.1	ArchiveItem	15
3.1.4.1.2.2	ArchiveItemResponse	15
3.1.4.1.3	Complex Types	15
3.1.4.1.3.1	ArchiveItemType	15
3.1.4.1.3.2	ArchiveItemResponseType	16
3.1.4.1.4	Simple Types	16
3.1.4.1.5	Attributes	16
3.1.4.1.6	Groups.....	16
3.1.4.1.7	Attribute Groups.....	16
3.1.4.2	CreateFolderPath	16
3.1.4.2.1	Messages	17
3.1.4.2.1.1	CreateFolderPathSoapIn	17
3.1.4.2.1.2	CreateFolderPathSoapOut	18
3.1.4.2.2	Elements.....	19
3.1.4.2.2.1	CreateFolderPath	19
3.1.4.2.2.2	CreateFolderPathResponse	19
3.1.4.2.3	Complex Types	19
3.1.4.2.3.1	CreateFolderPathType	19
3.1.4.2.3.2	CreateFolderPathResponseType	20

3.1.4.2.4	Simple Types	20
3.1.4.2.5	Attributes	20
3.1.4.2.6	Groups	20
3.1.4.2.7	Attribute Groups.....	20
3.1.5	Timer Events.....	20
3.1.6	Other Local Events.....	20
4	Protocol Examples	21
4.1	Archiving an Item	21
4.2	Creating a Folder Path	22
5	Security	24
5.1	Security Considerations for Implementers	24
5.2	Index of Security Parameters	24
6	Appendix A: Full WSDL	25
7	Appendix B: Full XML Schema.....	27
8	Appendix C: Product Behavior	28
9	Change Tracking.....	29
10	Index.....	31

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 specific to this document:

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

Hypertext Transfer Protocol (HTTP): An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

Hypertext Transfer Protocol Secure (HTTPS): An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [\[SSL3\]](#) and [\[RFC5246\]](#).

Inbox folder: A special folder that is the default location for Message objects received by a user or resource.

mailbox: A message store that contains email, calendar items, and other Message objects for a single recipient.

SOAP: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. **SOAP** uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [\[SOAP1.2-1/2003\]](#).

SOAP action: The HTTP request header field used to indicate the intent of the **SOAP** request, using a **URI** value. See [\[SOAP1.1\]](#) section 6.1.1 for more information.

SOAP body: A container for the payload data being delivered by a SOAP message to its recipient. See [\[SOAP1.2-1/2007\]](#) section 5.3 for more information.

SOAP header: A mechanism for implementing extensions to a SOAP message in a decentralized manner without prior agreement between the communicating parties. See [\[SOAP1.2-1/2007\]](#) section 5.2 for more information.

Uniform Resource Identifier (URI): A string that identifies a resource. The URI is an addressing mechanism defined in Internet Engineering Task Force (IETF) Uniform Resource Identifier (URI): Generic Syntax [\[RFC3986\]](#).

Uniform Resource Locator (URL): A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [\[RFC1738\]](#).

web server: A server computer that hosts websites and responds to requests from applications.

web service: A unit of application logic that provides data and services to other applications and can be called by using standard Internet transport protocols such as **HTTP**, Simple Mail Transfer Protocol (SMTP), or File Transfer Protocol (FTP). Web services can perform functions that range from simple requests to complicated business processes.

Web Services Description Language (WSDL): An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

WSDL message: An abstract, typed definition of the data that is communicated during a **WSDL operation** [WSDL]. Also, an element that describes the data being exchanged between web service providers and clients.

WSDL operation: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

WSDL port type: A named set of logically-related, abstract **Web Services Description Language (WSDL)** operations and messages.

XML namespace: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [RFC3986]. A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [XMLNS-2ED].

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

XML schema: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

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

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

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

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

[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-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 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** 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.

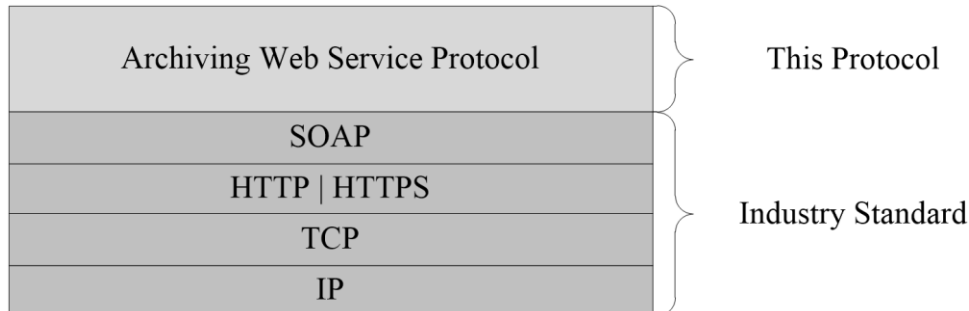


Figure 1: This protocol in relation to other protocols

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 **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 [\[MS-OXDCLI\]](#), 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 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 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 2.2.4.45, 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.

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.

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.

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>
```

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.

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 2.2.4.45)	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 2.2.3.11)	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 2.2.3.12)	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 2.2.4.12.

If the **ArchiveItem** operation request is not successful, it returns an **ArchiveItemResponse** element with the **ResponseClass** attribute of the **ArchiveItemResponseMessage** element set to "Error". The **ResponseCode** element of the **ArchiveItemResponseMessage** element is set to one of the common errors defined in [\[MS-OXWSCDATA\]](#) section 2.2.5.24.

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 2.2.4.17.

```
<xs:complexType name="ArchiveItemType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <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>
```

ArchiveSourceFolderId: An element of type **TargetFolderIdType**, as defined in [\[MS-OXWSFOLD\]](#) section 2.2.4.16, that specifies the identifier of the source folder.

ItemIds: An element of type **NonEmptyArrayOfBaseItemIdsType**, as defined in [\[MS-OXWSCORE\]](#) section 2.2.4.31, 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 2.2.4.18.

```
<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"/>
</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"/>
</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.

Part name	Element/type	Description
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 2.2.4.45)	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 2.2.3.11)	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 2.2.3.12)	Specifies a SOAP header that identifies the server version for the response.

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 2.2.4.12.

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 2.2.5.24.

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.

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 2.2.4.17](#).

```
<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>
```

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

ParentFolderId: An element of type **TargetFolderIdType**, as defined in [\[MS-OXWSFOLD\]](#) section 2.2.4.16, 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 2.2.4.18.

```
<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.

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

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="AQMkAGVmNDAYODMwLTNkMzMALTRhMGQtYTRlOS1kODU3NjkwMAE2MGQARgAAA2L1bNf8ooZNT04guk3auRYHALkzP
          vMoJY1FjWrkRuQQcK0AAAM0AAAAuTM+8ygljUWNauRG5BBwrQAAAxoAAAA="
          ChangeKey="CQAAABYAAAC5Mz7zKCWNRY1q5EbKEHCtAAAAAB7"/>
        </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>
    </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/>
  </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="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGY1YzZc3ZGY0MwAuAAAAADhS2QUsLGoTbY+lhGktZkcAQCYn
                YF59gJhQaoeGgGqm4QrAABqxisXAAA=" ChangeKey="AQAAABYAACYNrYF59gJhQaoeGgGqm4QrAABq6Wxb"/>
            </t:Folder>
          </m:Folders>
        </m:CreateFolderPathResponseMessage>
      </m:ResponseMessages>
    </m:CreateFolderPathResponse>
  </s:Body>
</s:Envelope>
```

```

        <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="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGYlYzc3ZGY0MwAuAAAAADhS2QUsLGoTbY+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="AAMkADEzOTExYjJkLTYxZDAtNDgxOC04YzQyLTU0OGYlYzc3ZGY0MwAuAAAAADhS2QUsLGoTbY+lhGktZkcAQCYn
YF59gJhQaoeGgGqm4QrAABqxisZAAA=" ChangeKey="AQAAABYAAACYNyF59gJhQaoeGgGqm4QrAABq6Wx1"/>
            <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>

```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

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="Exchange2016" 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>
        <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:message>

```

```
<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>
```

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="Exchange2016" 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"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CreateFolderPathResponse" type="m:CreateFolderPathResponseType"/>
</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 2013
- Microsoft Exchange Server 2016
- Microsoft Outlook 2013
- Microsoft Outlook 2016

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.

9 Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- The removal of a document from the documentation set.

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

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

The revision class **No change** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

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

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

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

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

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

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

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
6 Appendix A: Full WSDL	Updated the schema version value.	Y	Content update.
7 Appendix B: Full XML Schema	Updated the schema version value.	Y	Content update.
8 Appendix C: Product Behavior	Updated list of applicable products.	Y	Content update.

10 Index

A

Abstract data model
[server](#) 12
[Applicability](#) 8
[Archiving an item example](#) 21
[Attribute groups](#) 11
[Attributes](#) 11

C

[Capability negotiation](#) 8
[Change tracking](#) 29
Client
[overview](#) 12
[Complex types](#) 11
[Creating a folder path example](#) 22

D

Data model - abstract
[server](#) 12

E

Events
[local - server](#) 20
[timer - server](#) 20
Examples
[archiving an item](#) 21
[creating a folder path](#) 22
[ExchangeServicePortType port type](#) 12

F

[Fields - vendor-extensible](#) 9
[Full WSDL](#) 25
[Full XML schema](#) 27

G

[Glossary](#) 5
[Groups](#) 11

I

[Implementer - security considerations](#) 24
[Index of security parameters](#) 24
[Informative references](#) 7
Initialization
[server](#) 12
[Introduction](#) 5

L

Local events
[server](#) 20

M

Message processing
[server](#) 12
Messages
[attribute groups](#) 11
[attributes](#) 11
[complex types](#) 11
[elements](#) 10
[enumerated](#) 10
[groups](#) 11
[namespaces](#) 10
[overview](#) 10
[simple types](#) 11
[syntax](#) 10
[transport](#) 10

N

[Namespaces](#) 10
[Normative references](#) 6

O

Operations
[ArchiveItem](#) 12
[CreateFolderPath](#) 16
[Overview \(synopsis\)](#) 7

P

[Parameters - security index](#) 24
Port type
[ExchangeServicePortType](#) 12
[Preconditions](#) 8
[Prerequisites](#) 8
[Product behavior](#) 28
Protocol Details
[overview](#) 12

R

[References](#) 6
[informative](#) 7
[normative](#) 6
[Relationship to other protocols](#) 7

S

Security
[implementer considerations](#) 24
[parameter index](#) 24
Sequencing rules
[server](#) 12
Server
[abstract data model](#) 12
[ArchiveItem operation](#) 12
[CreateFolderPath operation](#) 16
[ExchangeServicePortType](#) 12
[initialization](#) 12
[local events](#) 20
[message processing](#) 12
[overview](#) 12

[sequencing rules](#) 12
[timer events](#) 20
[timers](#) 12
[Simple types](#) 11
[Standards assignments](#) 9
Syntax
[messages - overview](#) 10

T

Timer events
[server](#) 20
Timers
[server](#) 12
[Tracking changes](#) 29
[Transport](#) 10
Types
[complex](#) 11
[simple](#) 11

V

[Vendor-extensible fields](#) 9
[Versioning](#) 8

W

[WSDL](#) 25

X

[XML schema](#) 27