

[MS-ASAIRS]: Exchange ActiveSync: AirSyncBase Namespace Protocol

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Revision Summary

Date	Revision History	Revision Class	Comments
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03/04/2009	1.0.1	Editorial	Revised and edited technical content.
04/10/2009	2.0	Major	Updated technical content and applicable product releases.
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1 Introduction

The Exchange ActiveSync: AirSyncBase Namespace Protocol describes the elements in the AirSyncBase namespace, which are used by the commands specified in [\[MS-ASCMD\]](#) to identify the size, type, and content of the data sent by and returned to the client. The AirSyncBase namespace contains elements used in both request and response command messages.

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 [\[MS-OXGLOS\]](#):

Attachment object
base64 encoding
calendar
Hypertext Markup Language (HTML)
Hypertext Transfer Protocol (HTTP)
message body
Message object
message part
message store
Object Linking and Embedding (OLE)
plain text
Rich Text Format (RTF)
Unicode
Uniform Resource Identifier (URI)
XML namespace
XML schema

The following terms are specific to this document:

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as 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-ASCAL] Microsoft Corporation, "[Exchange ActiveSync: Calendar Class Protocol](#)".

[MS-ASCMD] Microsoft Corporation, "[Exchange ActiveSync: Command Reference Protocol](#)".

[MS-ASCNTC] Microsoft Corporation, "[Exchange ActiveSync: Contact Class Protocol](#)".

[MS-ASDTYPE] Microsoft Corporation, "[Exchange ActiveSync: Data Types](#)".

[MS-ASEMAIL] Microsoft Corporation, "[Exchange ActiveSync: Email Class Protocol](#)".

[MS-ASHTTP] Microsoft Corporation, "[Exchange ActiveSync: HTTP Protocol](#)".

[MS-ASTASK] Microsoft Corporation, "[Exchange ActiveSync: Tasks Class 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>

[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/>

1.2.2 Informative References

[MS-ASCON] Microsoft Corporation, "[Exchange ActiveSync: Conversations Protocol](#)".

[MS-ASDOC] Microsoft Corporation, "[Exchange ActiveSync: Document Class Protocol](#)".

[MS-ASMS] Microsoft Corporation, "[Exchange ActiveSync: Short Message Service \(SMS\) Protocol](#)".

[MS-ASNOTE] Microsoft Corporation, "[Exchange ActiveSync: Notes Class Protocol](#)".

[MS-ASRM] Microsoft Corporation, "[Exchange ActiveSync: Rights Management Protocol](#)".

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

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

1.3 Overview

The elements specified in the AirSyncBase namespace are used by multiple ActiveSync commands to identify the size, type, and content of data sent by and returned to the client. In order to use the elements in the AirSyncBase namespace, the namespace and elements are included in the command request and response messages as specified in this document.

1.4 Relationship to Other Protocols

The AirSyncBase namespace is used by the following protocols.

- Exchange ActiveSync: Calendar Class Protocol, described in [\[MS-ASCAL\]](#)
- Exchange ActiveSync: Command Reference Protocol, described in [\[MS-ASCMD\]](#)
- Exchange ActiveSync: Contact Class Protocol, described in [\[MS-ASCNTC\]](#)
- Exchange ActiveSync: Conversations Protocol, described in [\[MS-ASCON\]](#)
- Exchange ActiveSync: Document Class Protocol, described in [\[MS-ASDOC\]](#)
- Exchange ActiveSync: Email Class Protocol, described in [\[MS-ASEMAIL\]](#)

- Exchange ActiveSync: Short Message Service (SMS) Protocol, described in [\[MS-ASMS\]](#)
- Exchange ActiveSync: Notes Class Protocol, described in [\[MS-ASNOTE\]](#)
- Exchange ActiveSync: Rights Management Protocol, described in [\[MS-ASRM\]](#)
- Exchange ActiveSync: Tasks Class Protocol, described in [\[MS-ASTASK\]](#)

The elements in this specification use data types specified in [\[MS-ASDTYPE\]](#).

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

1.5 Prerequisites/Preconditions

To use the elements in the AirSyncBase namespace, include the namespace in the command request. The namespace is included by adding the following to the command request:

```
<CommandName xmlns:airsyncbase="ClassName:">
```

For a complete example, see [\[MS-ASCMD\]](#) section 4.10.1.1.

1.6 Applicability Statement

This specification applies to the **ItemOperations**, **Search**, and **Sync** commands, as specified in [\[MS-ASCMD\]](#).

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

The **Type** element can be extended to include custom message types. For more details, see section [2.2.2.23](#).

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The elements specified in the following sections are sent and received by using the **ItemOperations**, **Search**, and **Sync** commands, as specified in [\[MS-ASCMD\]](#).

2.2 Message Syntax

The **XML schema** for the **AirSyncBase** namespace is described in section [6](#).

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
None	AirSyncBase	
airsync	AirSync	[MS-ASCMD] section 2.2.2.20
email	Email	[MS-AEMAIL] section 2.2
email2	Email2	[MS-AEMAIL] section 2.2
itemoperations	ItemOperations	[MS-ASCMD] section 2.2.2.9
search	Search	[MS-ASCMD] section 2.2.2.15
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1]

2.2.2 Elements

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

Element name	Description
FileReference (section 2.2.2.14.2)	A unique identifier that is assigned by the server to each attachment to a message.
BodyPreference (section 2.2.2.7)	A collection of elements that sets the preference information related to the type and size of information that is returned from searching, synchronizing, or fetching.
Type (section 2.2.2.23.4)	The preferred format type of the body content of the item.
TruncationSize (section 2.2.2.22.2)	Specifies the size, in bytes, of the content that the client wants to search, synchronize, or fetch.
AllOrNone (section 2.2.2.1.2)	Specifies whether to search, synchronize, or retrieve all or none of the content based on the TruncationSize element.

Element name	Description
Preview (section 2.2.2.19.4)	The preferred length of the message preview to be returned to the client.
BodyPartPreference (section 2.2.2.6)	A collection of elements that sets the preference information related to the type and size of information that is returned from searching, synchronizing, or fetching a BodyPart .
Type (section 2.2.2.23.3)	The preferred format type of the body part content of the item.
TruncationSize (section 2.2.2.22.1)	Specifies the size, in bytes, of the content that the client wants to search, synchronize, or fetch.
AllOrNone (section 2.2.2.1.1)	Specifies whether to search, synchronize, or retrieve all or none of the content based on the TruncationSize element.
Preview (section 2.2.2.19.3)	The preferred length of the message preview to be returned to the client.
Body (section 2.2.2.4)	A collection of elements that specifies a free-form, variable-length data field associated with a stored item on the server.
Type (section 2.2.2.23.1)	The format type of the body content of the item.
EstimatedDataSize (section 2.2.2.13.2)	An informational estimate of the size of the data associated with the item's Body element.
Truncated (section 2.2.2.21.1)	Specifies whether the body of the item has been truncated according to the BodyPreference element indicated by the client.
Data (section 2.2.2.11.1)	The body of the calendar item, contact, document, e-mail, or task.
Preview (section 2.2.2.19.1)	The length of the message preview to be returned to the client.
Part (section 2.2.2.18)	The integer index into the metadata of the multipart response.
BodyPart (section 2.2.2.5)	A collection of elements that contains the message part of the body of an e-mail.
Status (section 2.2.2.20)	The status of the Data element within the BodyPart response.
Type (section 2.2.2.23.2)	The format type of the body part content of the item.
EstimatedDataSize (section 2.2.2.13.3)	An informational estimate of the size of the data associated with the item's BodyPart element.
Truncated (section 2.2.2.21.2)	Specifies whether the body of the item has been truncated according to the BodyPartPreference element indicated by the client.
Data (section 2.2.2.11.2)	The body part of the calendar item, contact, document, e-mail, note, or task.
Preview (section 2.2.2.19.2)	The length of the message preview to be returned to the client.
Attachments (section 2.2.2.3)	A collection of elements that contains one or more attachment items.
Attachment (section 2.2.2.3)	Specifies the attachment information for a single attachment item.

Element name	Description
2.2.2.2)	
DisplayName (section 2.2.2.12)	The display name of the attachment.
FileReference (section 2.2.2.14.1)	The location of an item on the server to retrieve.
Method (section 2.2.2.16)	Identifies the method in which the attachment was attached.
EstimatedDataSize (section 2.2.2.13.1)	An informational estimate of the size of the data associated with the attachment.
ContentId (section 2.2.2.8)	Contains the unique object ID for an attachment and is used to identify the attachment in order to reference it within the item to which the attachment belongs.
ContentLocation (section 2.2.2.9)	Contains the relative URI for an attachment, which is used to associate the attachment in other items with the URI defining its location.
IsInline (section 2.2.2.15)	Specifies whether the attachment is embedded in the message.
NativeBodyType (section 2.2.2.17)	The original format type of the item.

2.2.2.1 AllOrNone

The **AllOrNone** element is a child element of the **BodyPartPreference** element (section [2.2.2.6](#)) and the **BodyPreference** element (section [2.2.2.7](#)) that specifies whether to search, synchronize, or retrieve all or none of the content based on the **TruncationSize** element (section [2.2.2.22](#)).

The value of this element is a **boolean** value ([**MS-ASDTYPE**] section 2.1). When the value is set to 1 (TRUE) and the content has not been truncated, all of the content is searched, synchronized, or retrieved. When the value is set to 1 (TRUE) and the content has been truncated, the content is not searched, synchronized, or retrieved. When the value is set to 0 (FALSE), the truncated or nontruncated content is searched, synchronized, or retrieved.

2.2.2.1.1 AllOrNone (BodyPartPreference)

The **AllOrNone** element is an optional child element of the **BodyPartPreference** element (section [2.2.2.6](#)). A command request **MUST** have a maximum of 1 **AllOrNone** element per **BodyPartPreference** element. If the **AllOrNone** element is not included in the request, the truncated or nontruncated content is searched, synchronized, or retrieved as if the value was set to 0 (FALSE). The **AllOrNone** element **MUST NOT** be used in command responses.

This element **MUST** be ignored if the **TruncationSize** element is not included.

A client can include multiple **BodyPartPreference** elements in a command request with different values for the **Type** element (section [2.2.2.23.3](#)). By default, the server returns the data truncated to the size requested by **TruncationSize** for the **Type** element that matches the native storage format of the item's **Body** element (section [2.2.2.4](#)). But, if the client also includes the **AllOrNone** element with a value of 1 (TRUE) along with the **TruncationSize** element, it is instructing the server not to return a truncated response for that type when the size (in bytes) of the available data exceeds the value of the **TruncationSize** element. For example, a client can use these two elements to signify that it cannot process partial **Rich Text Format (RTF)** data (a **Type** element value of 3). In this case, if the client has specified multiple **BodyPartPreference** elements, the

server selects the next **BodyPartPreference** element that will return the maximum amount of body text to the client. Assume that the client specifies two **BodyPartPreference** elements:

```
<airsynbase:BodyPartPreference>
  <airsynbase:Type>2</airsynbase:Type>
  <airsynbase:AllOrNone>1</airsynbase:AllOrNone>
  <airsynbase:TruncationSize>50</airsynbase:TruncationSize>
</airsynbase:BodyPartPreference>

<airsynbase:BodyPartPreference>
  <airsynbase:Type>1</airsynbase:Type>
  <airsynbase:TruncationSize>50</airsynbase:TruncationSize>
</airsynbase:BodyPartPreference>
```

The first **BodyPartPreference** element requests an **HTML** body, but only if the body size is less than 50 bytes. The second requests an element in **plain text** format. If the client requests a text body whose native format is HTML, and the size of the data exceeds 50 bytes, the server converts the body to plain text and returns the first 50 bytes of plain text data.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.1.2 AllOrNone (BodyPreference)

The **AllOrNone** element is an optional child element of the **BodyPreference** element (section [2.2.2.7](#)). A command request **MUST** have a maximum of 1 **AllOrNone** element per **BodyPreference** element. If the **AllOrNone** element is not included in the request, then the truncated or non-truncated content is searched, synchronized, or retrieved as if the value was set to 0 (FALSE). The **AllOrNone** element **MUST NOT** be used in command responses.

This element **MUST** be ignored if the **TruncationSize** element is not included.

A client can include multiple **BodyPreference** elements in a command request with different values for the **Type** element (section [2.2.2.23.4](#)). By default, the server returns the data truncated to the size requested by **TruncationSize** for the **Type** element that matches the native storage format of the item's **Body** element (section [2.2.2.4](#)). But, if the client also includes the **AllOrNone** element with a value of 1 (TRUE) along with the **TruncationSize** element, it is instructing the server not to return a truncated response for that type when the size (in bytes) of the available data exceeds the value of the **TruncationSize** element. For example, a client can use these two elements to signify that it cannot process partial Rich Text Format (RTF) data (a **Type** element value of 3). In this case,

if the client has specified multiple **BodyPreference** elements, the server selects the next **BodyPreference** element that will return the maximum amount of body text to the client. Assume that the client specifies two **BodyPreference** elements.

```
<airsynbase:BodyPreference>
  <airsynbase:Type>2</airsynbase:Type>
  <airsynbase:AllOrNone>1</airsynbase:AllOrNone>
  <airsynbase:TruncationSize>50</airsynbase:TruncationSize>
</airsynbase:BodyPreference>

<airsynbase:BodyPreference>
  <airsynbase:Type>1</airsynbase:Type>
  <airsynbase:TruncationSize>50</airsynbase:TruncationSize>
</airsynbase:BodyPreference>
```

The first **BodyPreference** element requests an HTML body, but only if the body size is less than 50 bytes. The second requests an element in plain text format. If the client requests a text body whose native format is HTML, and the size of the data exceeds 50 bytes, the server converts the body to plain text and returns the first 50 bytes of plain text data.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.2 Attachment

The **Attachment** element is a required child element of the **Attachments** element (section [2.2.2.3](#)) and specifies the attachment information for a single attachment item.

Command requests MUST NOT include the **Attachment** element.

The **Attachment** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2. It has the following child elements in any order (elements noted as optional can be in the response):

- **DisplayName** (section [2.2.2.12](#)). This element is optional.
- **FileReference** (section [2.2.2.14.1](#)). This element is required.
- **Method** (section [2.2.2.16](#)). This element is required.
- **EstimatedDataSize** (section [2.2.2.13.1](#)). This element is required.

- **ContentId** (section [2.2.2.8](#)). This element is optional.
- **ContentLocation** (section [2.2.2.9](#)). This element is optional.
- **IsInline** (section [2.2.2.15](#)). This element is optional.
- **email2:UmAttDuration** ([\[MS-ASEMAIL\]](#) section 2.2.2.78). This element is optional.
- **email2:UmAttOrder** ([\[MS-ASEMAIL\]](#) section 2.2.2.79). This element is optional.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.3 Attachments

The **Attachments** element is an optional child element of the **airsync:ApplicationData** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.11), the **itemoperations:Properties** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.128.1), and the **search:Properties** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.128.2) that contains one or more attachment items.

Command requests MUST NOT include the **Attachments** element.

The **Attachments** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2. It has the following child elements:

- **Attachment** (section [2.2.2.2](#)): At least one instance of this element is required.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X

Protocol version	Element support
14.0	X
14.1	X

The **email:Attachments** element, as specified in [\[MS-ASEMAIL\]](#) section 2.2.2.4.2, is used with protocol version 2.5 instead of the **Attachments** element of the **AirSyncBase** namespace.

2.2.2.4 Body

The **Body** element is an optional child element of the **airsync:ApplicationData** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.11), the **itemoperations:Properties** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.128.1), and the **search:Properties** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.128.2) that specifies a free-form, variable-length data field associated with an item stored on the server. The item can be for any of the following content classes: **Calendar**, **Contact**, **Email**, **Notes**, **SMS**, or **Tasks**.

The **Body** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2.

The **Body** element MUST be included in a response message whenever an item has changes or new items are created. There is no limit on the number of **Body** elements in a command response. When included in a command response, the **Body** element indicates the existence of one or more variable-length fields of data associated with the item. Command requests can include the **Body** element.

The **Body** element, if present, has the following required and optional child elements in this order:

- **Type** (section [2.2.2.23.1](#)): This element is required.
- **EstimatedDataSize** (section [2.2.2.13.2](#)): This element is optional.
- **Truncated** (section [2.2.2.21.1](#)). This element has no effect in a command request and is optional in the response.
- **Data** (section [2.2.2.11.1](#)): This element is optional.
- **Part** (section [2.2.2.18](#)): This element is optional.
- **Preview** (section [2.2.2.19.1](#)): This element is optional.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X

Protocol version	Element support
14.1	X

For the **Calendar**, **Contact**, **Email**, and **Tasks** content classes, the **Body** element that is defined in the respective class namespace is used with protocol version 2.5 instead of the **Body** element of the **AirSyncBase** namespace. For details, see the [\[MS-ASCAL\]](#), [\[MS-ASCNTC\]](#), [\[MS-ASEMAIL\]](#), and [\[MS-ASTASK\]](#) documents.

2.2.2.5 BodyPart

The **BodyPart** element is an optional child element of the **airsync:ApplicationData** element that specifies details about the message part of an e-mail in a response. The **BodyPart** element **MUST** be included in a command response when the **BodyPartPreference** element (section [2.2.2.6](#)) is specified in a request.

The **BodyPart** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2.

There is no limit on the number of **BodyPart** elements in a command response. Command requests **MUST NOT** include the **BodyPart** element. In a response, the **airsync:ApplicationData** element **MUST** be the parent element of the **BodyPart** element.

The **BodyPart** element, if present, **MUST** have its required and optional child elements in the following order:

- **Status** (section [2.2.2.20](#)). This element is required.
- **Type** (section [2.2.2.23.2](#)). This element is required.
- **EstimatedDataSize** (section [2.2.2.13.3](#)). This element is required.
- **Truncated** (section [2.2.2.21.2](#)). This element is optional.
- **Data** (section [2.2.2.11.2](#)). This element is optional.
- **Preview** (section [2.2.2.19.2](#)). This element is optional.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.6 BodyPartPreference

The **BodyPartPreference** element is an optional element that sets preference information related to the type and size of information that is returned from searching, synchronizing, or fetching a message part.

The **BodyPartPreference** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2.

A command response MUST NOT include a **BodyPartPreference** element. Command requests can include the **BodyPartPreference** element. The **Options** element ([\[MS-ASCMD\]](#) section 2.2.3.115) MUST be the parent element of the **BodyPartPreference** element. The **BodyPartPreference** element, if present, MUST have the following required and optional child elements in the following order:

- **Type** (section [2.2.2.23.3](#)). This element is required.
- **TruncationSize** (section [2.2.2.22.1](#)). This element is optional.
- **AllOrNone** (section [2.2.2.1.1](#)). This element is optional.
- **Preview** (section [2.2.2.19.3](#)). This element is optional.

The contents of the **Options** element specify preferences for all of the content that the user is interested in searching, synchronizing, or retrieving. These preferences are set on a per-request basis and override any stored information. Because this information is required to process every request, the information can be persisted on the server if network load is a concern.

There MUST be one explicit **BodyPartPreference** element for each **Type** value specified in the set of preferences in order to request a **BodyPart** element (section [2.2.2.5](#)) of that **Type** in the response.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.7 BodyPreference

The **BodyPreference** element is an optional element that sets preference information related to the type and size of information that is returned from searching, synchronizing, or fetching.

The **BodyPreference** element is a **container** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.2.

A command response MUST NOT include the **BodyPreference** element. Command requests can include the **BodyPreference** element. The **BodyPreference** element, if present, has the following child elements in this order:

- **Type** (section [2.2.2.23.4](#)). This element is required.
- **TruncationSize** (section [2.2.2.22.2](#)). This element is optional.
- **AllOrNone** (section [2.2.2.1.2](#)). This element is optional.
- **Preview** (section [2.2.2.19.4](#)). This element is optional.

The contents of the **airsync:Options**, **itemoperations:Options**, or **search:Options** element specify preferences for all of the content that the user is interested in searching, synchronizing, or retrieving. These preferences are persisted by the server from request to request for the specified client, and can be changed by the inclusion of an **airsync:Options** element in any subsequent request.

A request MUST NOT contain more than one **BodyPreference** element for each allowable value of the **Type** element.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.8 ContentId

The **ContentId** element is an optional child element of the **Attachment** element (section [2.2.2.2](#)) that contains the unique identifier of the attachment, and is used to identify the attachment in order to reference it within the item to which the attachment belongs.

The value of this element is a **string** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.6.

A command response MUST have a maximum of one **ContentId** element per **Attachment** element. The **ContentId** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.9 ContentLocation

The **ContentLocation** element is an optional child element of the **Attachment** element (section [2.2.2.2](#)) that contains the relative URI for an attachment, and is used to associate the attachment in other items with URI defining its location.

The value of this element is a **string** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.6.

A command response MUST have a maximum of one **ContentLocation** element per **Attachment** element. The **ContentLocation** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.10 ContentType

The **ContentType** element is an optional child element of the **itemoperations:Properties** element ([\[MS-ASCMD\]](#) section 2.2.3.128.1) that specifies the type of data returned in the **itemoperations:Data** element ([\[MS-ASCMD\]](#) section 2.2.3.39.1) of an **ItemOperations** command response ([\[MS-ASCMD\]](#) section 2.2.2.9).

The value of this element is a **string** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.6.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.11 Data

The **Data** element is a child element of the **Body** element (section [2.2.2.4](#)) and the **BodyPart** element (section [2.2.2.5](#)) that contains the data of the **message body** (2) or the message part of the calendar item, contact, document, e-mail, or task.

The value of this element is a **string** data type, as specified in [\[MS-ASDTYPE\]](#) section 2.6.

2.2.2.11.1 Data (Body)

The **Data** element is an optional child element of the **Body** element (section [2.2.2.4](#)). A command response MUST have a maximum of one **Data** element within each returned **Body** element. Command requests can include the **Data** element. This element MUST NOT be present in multipart responses, as specified in [\[MS-ASCMD\]](#) section 2.2.2.9.1.

The content of the **Data** element is returned as a **string** in the format that is specified by the **Type** element (section [2.2.2.23.1](#)). If the value of the **Type** element is 3 (RTF), the value of the **Data** element is encoded using **base64 encoding**.

If the **Truncated** element (section [2.2.2.21.1](#)) is included in the response, the data in the **Data** element is truncated. The **EstimatedDataSize** element (section [2.2.2.13.2](#)) provides a rough estimation of the actual size of the complete content of the **Data** element.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.11.2 Data (BodyPart)

The **Data** element is an optional child element of the **BodyPart** element (section [2.2.2.5](#)). A command response MUST have a maximum of one **Data** element within each returned **BodyPart** element.

In a response, the **Data** element MUST have no child elements.

The content of the **Data** element is returned as a **string** in the format that is specified by the **Type** element (section [2.2.2.23.2](#)). If the value of the **Type** element is 3 (RTF), the value of the **Data** element is encoded using base64 encoding.

If the **Truncated** element (section [2.2.2.21.2](#)) is included in the response, then the data in the **Data** element is truncated. The **EstimatedDataSize** element (section [2.2.2.13.3](#)) provides a rough estimation of the actual size of the complete content of the **Data string**.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.12 DisplayName

The **DisplayName** element is an optional child element of the **Attachment** element (section [2.2.2.2](#)) that specifies the display name of the attachment.

The value of this element is a **string** value ([\[MS-ASDTYPE\]](#) section 2.6).

A command response MUST have a maximum of one **DisplayName** element per **Attachment** element.

The **DisplayName** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	

Protocol version	Element support
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.13 EstimatedDataSize

The **EstimatedDataSize** element is a child element of the **Attachment** element (section [2.2.2.2](#)), the **Body** element (section [2.2.2.4](#)), and the **BodyPart** element (section [2.2.2.5](#)) that provides an informational estimate of the size of the data associated with the parent element.

The value of this element is an **integer** value ([\[MS-ASDTYPE\]](#) section 2.5).

The **EstimatedDataSize** value represents an estimate of the original size of the content in the **message store** and is specified in bytes. This number is only an estimate, and the actual size of the content when fetched can differ based on the content filtering rules applied.

2.2.2.13.1 EstimatedDataSize (Attachment)

The **EstimatedDataSize** element is required child element of the **Attachment** element (section [2.2.2.2](#)).

A command response MUST have a maximum of one **EstimatedDataSize** element per **Attachment** element.

The **EstimatedDataSize** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.13.2 EstimatedDataSize (Body)

The **EstimatedDataSize** element is an optional child element of the **Body** element (section [2.2.2.4](#)). The **EstimatedDataSize** element SHOULD be included in a response message whenever the **Truncated** element is set to TRUE.

A command response MUST have a maximum of one **EstimatedDataSize** element per **Body** element.

The **EstimatedDataSize** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.13.3 EstimatedDataSize (BodyPart)

The **EstimatedDataSize** element is a required child element of the **BodyPart** element (section [2.2.2.5](#)). The **EstimatedDataSize** element SHOULD be included in a response message whenever the **Truncated** element is set to TRUE.

A command response MUST have a maximum of one **EstimatedDataSize** element per **BodyPart** element. The **EstimatedDataSize** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.14 FileReference

The **FileReference** element is a child element of the **itemoperations:Fetch** element ([\[MS-ASCMD\]](#) section 2.2.3.63.1) and the **Attachment** element (section [2.2.2.2](#)).

The value of this element is a **string** value ([\[MS-ASDTYPE\]](#) section 2.6).

2.2.2.14.1 FileReference (Attachment)

The **FileReference** element is a required child element of the **Attachment** element (section [2.2.2.2](#)) that specifies the location of an item on the server to retrieve.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.14.2 FileReference (Fetch)

In an **ItemOperations** command request (as specified in [\[MS-ASCMD\]](#) section 2.2.2.9), the **FileReference** element is an optional child element of the **itemoperations:Fetch** element (as specified in [\[MS-ASCMD\]](#) section 2.2.3.63.1). The **FileReference** element specifies a unique identifier that is assigned by the server to each **Attachment object** to a **Message object**.

If the client includes a zero-length string for the value of this element in an **ItemOperations** command request, the server responds with a protocol status error of 15.

The **FileReference** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.15 IsInline

The **IsInline** element is an optional child element of the **Attachment** element (section [2.2.2.2](#)) that specifies whether the attachment is embedded in the message.

The value of this element is a **boolean** value ([\[MS-ASDTYPE\]](#) section 2.1).

A command response MUST have a maximum of one **IsInline** element per **Attachment** element.

The **IsInline** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.16 Method

The **Method** element is a required child element of the **Attachment** element (section [2.2.2.2](#)) that identifies the method in which the attachment was attached.

The value of this element is an **unsignedByte** value ([\[MS-ASDTYPE\]](#) section 2.7).

A command response MUST have a maximum of one **Method** element per **Attachment** element.

The **Method** element MUST have no child elements.

The following table defines the valid values of the **Method** element.

Value	Meaning	Notes
1	Normal attachment	The attachment is a normal attachment. This is the most common value.
2	Reserved	Do not use.
3	Reserved	Do not use.
4	Reserved	Do not use.
5	Embedded message	Indicates that the attachment is an e-mail message, and that the attachment file has an .eml extension.
6	Attach OLE	Indicates that the attachment is an embedded Object Linking and

Value	Meaning	Notes
		Embedding (OLE) object, such as an inline image.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.17 NativeBodyType

The **NativeBodyType** element is an optional child element of the **airsync:ApplicationData** element ([\[MS-ASCMD\]](#)) in the **Sync** command that specifies the original format type of the item.

The value of this element is an **unsignedByte** value ([\[MS-ASDTYPE\]](#) section 2.7).

A command response MUST have a maximum of one **NativeBodyType** element per **airsync:ApplicationData** element. Command requests can include the **NativeBodyType** element.

The **NativeBodyType** element MUST have no child elements.

The following table defines the valid values of the **NativeBodyType** element.

Value	Description
1	Plain text
2	HTML
3	RTF

The **NativeBodyType** and **Type** elements have the same value unless the server has modified the format of the body to match the client's request. The client can specify a preferred body format by using the **Type** element of a **Search** or **Sync** command request.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.18 Part

The **Part** element ([\[MS-ASCMD\]](#) section 2.2.3.120) is an optional child element of the **Body** element (section [2.2.2.4](#)) that contains an integer index into the metadata of the multipart response. This element **MUST** be present in multipart responses, as specified in [\[MS-ASCMD\]](#) section 2.2.2.9.1. This element **MUST NOT** be present in requests or non-multipart responses.

The value of this element is an **integer** ([\[MS-ASDTYPE\]](#) section 2.5).

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.19 Preview

The **Preview** element is a child element of the **Body** element (section [2.2.2.4](#)), the **BodyPart** element (section [2.2.2.5](#)), the **BodyPartPreference** element (section [2.2.2.6](#)), and the **BodyPreference** element (section [2.2.2.6](#)).

2.2.2.19.1 Preview (Body)

The **Preview** element is an optional child element of the **Body** element (section [2.2.2.4](#)) that contains the **Unicode** plain text message or message part preview returned to the client.

The value of this element is a **string** ([\[MS-ASDTYPE\]](#) section 2.6). The **Preview** element in a response **MUST** contain no more than the number of characters specified in the request.

Command responses **MUST** have a maximum of one **Preview** element per **Body** element.

The **Preview** element **MUST** have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	X
14.1	X

2.2.2.19.2 Preview (BodyPart)

The **Preview** element is an optional child element of the **BodyPart** element (section [2.2.2.5](#)) that contains the Unicode plain text message or message part preview returned to the client.

The value of this element is a **string** ([\[MS-ASDTYPE\]](#) section 2.6). The **Preview** element in a response MUST contain no more than the number of characters specified in the request. The **Preview** element MUST be present in a command response if a **BodyPartPreference** element (section [2.2.2.6](#)) in the request included a **Preview** element and the server can honor the request.

Command responses MUST have a maximum of one **Preview** element per **BodyPart** element.

The **Preview** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.19.3 Preview (BodyPartPreference)

The **Preview** element is an optional child element of the **BodyPartPreference** element (section [2.2.2.6](#)) that specifies the maximum length of the Unicode plain text message or message part preview to be returned to the client.

The value of this element is an **integer** value ([\[MS-ASDTYPE\]](#) section 2.5). This element MUST have a value set from 0 to 255, inclusive.

A command request MUST have a maximum of one **Preview** element per **BodyPartPreference** element.

The **Preview** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.19.4 Preview (BodyPreference)

The **Preview** element is an optional child element of the **BodyPreference** element (section [2.2.2.7](#)) that specifies the maximum length of the Unicode plain text message or message part preview to be returned to the client.

The value of this element is an **integer** value (as specified in [\[MS-ASDTYPE\]](#) section 2.5). This element MUST have a value set from 0 to 255, inclusive.

A command request MUST have a maximum of one **Preview** element per **BodyPreference** element.

The **Preview** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	X

Protocol version	Element support
14.1	X

2.2.2.20 Status

The **Status** element is a required child element of the **BodyPart** element (section [2.2.2.5](#)) that indicates the success or failure of the response in returning **Data** element content (section [2.2.2.11.2](#)) given the **BodyPartPreference** element settings (section [2.2.2.6](#)) in the request.

The following table lists valid values for the **Status** element.

Value	Meaning
1	Success.
176	The message part is too large.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.21 Truncated

The **Truncated** element is a child element of the **Body** element (section [2.2.2.4](#)) and the **BodyPart** element (section [2.2.2.5](#)). The value of this element is a **boolean** value ([\[MS-ASDTYPE\]](#) section 2.1) that specified whether the body or body part has been truncated.

2.2.2.21.1 Truncated (Body)

The **Truncated** element is an optional child element of the **Body** element (section [2.2.2.4](#)) that specifies whether the body of the item has been truncated according to the **BodyPreference** element (section [2.2.2.7](#)) indicated by the client.

If the value is TRUE, then the body of the item has been truncated. If the value is FALSE, or there is no **Truncated** element, then the body of the item has not been truncated.

If a **Truncated** element is included in a command request, then it is ignored by the server.

A command response MUST have a maximum of one **Truncated** element per **Body** element.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.21.2 Truncated (BodyPart)

The **Truncated** element is an optional child element of the **BodyPart** element (section [2.2.2.5](#)) that specifies whether the body of the item has been truncated according to the **BodyPartPreference** element (section [2.2.2.6](#)) indicated by the client.

If the value is TRUE, then the body of the item has been truncated. If the value is FALSE, or there is no **Truncated** element, then the body of the item has not been truncated.

A command response MUST have a maximum of one **Truncated** element per **BodyPart** element.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.22 TruncationSize

The **TruncationSize** element is a child element of the **BodyPartPreference** element (section [2.2.2.6](#)) and the **BodyPreference** element (section [2.2.2.7](#)). The value of this element is an **integer** value ([\[MS-ASDTYPE\]](#) section 2.5) that specifies the size, in bytes, of the content that the user wants to search, synchronize, or fetch.

2.2.2.22.1 TruncationSize (BodyPartPreference)

The **TruncationSize** element is an optional child element of the **BodyPartPreference** element (section [2.2.2.6](#)).

A command request MUST have a maximum of one **TruncationSize** element per **BodyPartPreference** element.

Command responses MUST NOT include the **TruncationSize** element.

The **TruncationSize** element MUST have no child elements.

The maximum value for **TruncationSize** is 4,294,967,295. If the **TruncationSize** element is absent, the entire content is used for the request.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.22.2 TruncationSize (BodyPreference)

The **TruncationSize** element is an optional child element of the **BodyPreference** type (section [2.2.2.7](#)).

A command request MUST have a maximum of one **TruncationSize** element per **BodyPreference** element.

Command responses MUST NOT include the **TruncationSize** element.

The **TruncationSize** element MUST have no child elements.

The maximum value for **TruncationSize** is 4,294,967,295. If the **TruncationSize** element is absent, the entire content is used for the request.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.23 Type

The **Type** element is a child element of the **Body** element (section [2.2.2.4](#)), the **BodyPart** element (section [2.2.2.5](#)), the **BodyPartPreference** element (section [2.2.2.6](#)), and the **BodyPreference** element (section [2.2.2.7](#)). The value of this element is an **unsignedByte** value ([\[MS-ASDTYPE\]](#) section 2.7) that indicates the format type of the body content of the item.

The following table defines the valid values of the **Type** element.

Value	Description
1	Plain text
2	HTML
3	RTF
4	MIME

2.2.2.23.1 Type (Body)

The **Type** element is a required element of the **Body** element (section [2.2.2.4](#)).

A command request or response MUST have a maximum of one **Type** element per **Body** element.

The **Type** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.2.23.2 Type (BodyPart)

The **Type** element is a required child element of the **BodyPart** element (section [2.2.2.5](#)).

A command response MUST have a maximum of one **Type** element per **BodyPart** element.

The **Type** element MUST have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.23.3 Type (BodyPartPreference)

The **Type** element is a required child element of the **BodyPartPreference** element (section [2.2.2.6](#)).

A command request MUST have a maximum of one **Type** element per **BodyPartPreference** element.

The **Type** element MUST have no child elements.

Only a value of 2 (HTML) SHOULD be used in the **Type** element of a **BodyPartPreference** element.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	
12.1	
14.0	
14.1	X

2.2.2.23.4 Type (BodyPreference)

The **Type** element is a required child element of the **BodyPreference** element (section [2.2.2.7](#)).

A command request **MUST** have a maximum of one **Type** element per **BodyPreference** element.

The **Type** element **MUST** have no child elements.

Protocol Versions

The following table specifies the protocol versions that support this element. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	
12.0	X
12.1	X
14.0	X
14.1	X

2.2.3 Groups

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

Group	Description
TopLevelSchemaProps	Identifies the Body element (section 2.2.2.4), BodyPart element (section 2.2.2.5), and the Attachments element (section 2.2.2.3) as being part of the TopLevelSchemaProps group.

2.2.3.1 TopLevelSchemaProps

The **TopLevelSchemaProps** group identifies the **Body** element (section [2.2.2.4](#)), the **BodyPart** element (section [2.2.2.5](#)), and the **Attachments** element (section [2.2.2.3](#)) as being part of the **TopLevelSchemaProps** group. The **TopLevelSchemaProps** group is used by the **ItemOperations** command request specified in [\[MS-ASCMD\]](#) section 2.2.2.9.

Protocol Versions

The following table specifies the protocol versions that support this group. The client indicates the protocol version being used by setting either the MS-ASProtocolVersion header, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.2.4, or the **Protocol version** field, as specified in [\[MS-ASHTTP\]](#) section 2.2.1.1.1.1, in the request.

Protocol version	Element support
2.5	

Protocol version	Element support
12.0	X
12.1	X
14.0	X
14.1	X

3 Protocol Details

3.1 Client Details

3.1.1 Abstract Data Model

None.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

3.1.5.1 Commands

The following table lists the commands that use the XML elements specified by this protocol.

Command	Description
ItemOperations	Retrieves an item from the server.
Search	Searches the server for items that match the specified criteria.
Sync	Synchronizes changes in a collections set between the client and the server.

3.1.5.1.1 ItemOperations

The request message for the **ItemOperations** command can include the following elements:

- **FileReference** (section [2.2.2.14.2](#))
- **BodyPreference** (section [2.2.2.7](#))
 - **Type** (section [2.2.2.23.4](#))
 - **TruncationSize** (section [2.2.2.22.2](#))
 - **AllOrNone** (section [2.2.2.1.2](#))
- **BodyPartPreference** (section [2.2.2.6](#))
 - **Type** (section [2.2.2.23.3](#))
 - **TruncationSize** (section [2.2.2.22.1](#))

- **AllOrNone** (section [2.2.2.1.1](#))

3.1.5.1.2 Search

The request message for the **Search** command can include the following elements and types:

- **BodyPreference** (section [2.2.2.7](#))
 - **Type** (section [2.2.2.23.4](#))
 - **TruncationSize** (section [2.2.2.22.2](#))
 - **AllOrNone** (section [2.2.2.1.2](#))
- **BodyPartPreference** (section [2.2.2.6](#))
 - **Type** (section [2.2.2.23.3](#))
 - **TruncationSize** (section [2.2.2.22.1](#))
 - **AllOrNone** (section [2.2.2.1.1](#))

The **BodyPartPreference** element is only supported in a **Search** command request when the **ConversationId** element ([\[MS-ASCMD\]](#) section 2.2.3.35.2) is also included.

3.1.5.1.3 Sync

The request message for the **Sync** command can include the following elements and types:

- **BodyPreference** (section [2.2.2.7](#))
 - **Type** (section [2.2.2.23.4](#))
 - **TruncationSize** (section [2.2.2.22.2](#))
 - **AllOrNone** (section [2.2.2.1.2](#))
 - **Preview** (section [2.2.2.19.4](#))
- **BodyPartPreference** (section [2.2.2.6](#))
 - **Type** (section [2.2.2.23.3](#))
 - **TruncationSize** (section [2.2.2.22.1](#))
 - **AllOrNone** (section [2.2.2.1.1](#))
 - **Preview** (section [2.2.2.19.3](#))

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

3.2 Server Details

3.2.1 Abstract Data Model

None.

3.2.2 Timers

None.

3.2.3 Initialization

None.

3.2.4 Higher-Layer Triggered Events

None.

3.2.5 Message Processing Events and Sequencing Rules

3.2.5.1 Validating XML

When the server receives an **ItemOperations**, **Search**, or **Sync** command, it SHOULD check any of the XML elements specified in section 2.2.2 that are present in the command's XML body to ensure they comply with the requirements regarding data type, number of instances, order, and placement in the XML hierarchy. Unless specified in the following table, if an element does not meet the requirements specified for that element, the server SHOULD return protocol status error 2 for an **ItemOperations** command (as specified in [MS-ASCMD] section 2.2.2.9) or a **Search** command (as specified in [MS-ASCMD] section 2.2.2.15), and protocol status error 6 for a **Sync** command (as specified in [MS-ASCMD] section 2.2.2.20).

Element name	Condition	Protocol Status Error
BodyPreference (section 2.2.2.7)	Child elements are not in the correct order.	4 (for Sync command)
BodyPreference	Multiple BodyPreference elements are present with the same value in the Type child element	Server SHOULD return 4 (for Sync command), but MAY return an HTTP error 500.<1>
AllOrNone (section 2.2.2.1.2)	The AllOrNone element is not of type boolean .	4 (for Sync command)
AllOrNone	Multiple AllOrNone elements in a single BodyPreference element.	4 (for Sync command)

3.2.5.2 Commands

The following table lists the commands that use the XML elements specified by this protocol.

Command	Description
ItemOperations	Retrieves an item from the server.
Search	Searches the server for items that match the specified criteria.

Command	Description
Sync	Synchronizes changes in a collections set between the client and the server.

The server SHOULD process commands as specified in [\[MS-ASCMD\]](#). The server SHOULD modify responses based on the elements specified in section [2.2.2](#) as specified for each element.

3.2.5.2.1 ItemOperations

The response message for the **ItemOperations** command can include the following:

- **Attachments** (section [2.2.2.3](#))
 - **Attachment** (section [2.2.2.2](#))
 - **DisplayName** (section [2.2.2.12](#))
 - **FileReference** (section [2.2.2.14.1](#))
 - **Method** (section [2.2.2.16](#))
 - **EstimatedDataSize** (section [2.2.2.13.1](#))
 - **ContentId** (section [2.2.2.8](#))
 - **ContentLocation** (section [2.2.2.9](#))
 - **IsInline** (section [2.2.2.15](#))
 - **email2:UmAttDuration** ([\[MS-ASEMAIL\]](#) section 2.2.2.78)
 - **email2:UmAttOrder** ([\[MS-ASEMAIL\]](#) section 2.2.2.79)
- **Body** (section [2.2.2.4](#))
 - **Type** (section [2.2.2.23.1](#))
 - **EstimatedDataSize** (section [2.2.2.13.2](#))
 - **Truncated** (section [2.2.2.21.1](#))
 - **Data** (section [2.2.2.11.1](#))
 - **Preview** (section [2.2.2.19.1](#))
- **BodyPart** (section [2.2.2.5](#))
 - **Status** (section [2.2.2.20](#))
 - **Type** (section [2.2.2.23.2](#))
 - **EstimatedDataSize** (section [2.2.2.13.3](#))
 - **Truncated** (section [2.2.2.21.2](#))
 - **Data** (section [2.2.2.11.2](#))
 - **Preview** (section [2.2.2.19.2](#))

3.2.5.2.2 Search

The response message for the **Search** command can include the following:

- **Attachments** (section [2.2.2.3](#))
 - **Attachment** (section [2.2.2.2](#))
 - **DisplayName** (section [2.2.2.12](#))
 - **FileReference** (section [2.2.2.14.1](#))
 - **Method** (section [2.2.2.16](#))
 - **EstimatedDataSize** (section [2.2.2.13.1](#))
 - **ContentId** (section [2.2.2.8](#))
 - **ContentLocation** (section [2.2.2.9](#))
 - **IsInline** (section [2.2.2.15](#))
- **Body** (section [2.2.2.4](#))
 - **Type** (section [2.2.2.23.1](#))
 - **EstimatedDataSize** (section [2.2.2.13.2](#))
 - **Truncated** (section [2.2.2.21.1](#))
 - **Data** (section [2.2.2.11.1](#))
 - **Preview** (section [2.2.2.19.1](#))
- **BodyPart** (section [2.2.2.5](#))
 - **Status** (section [2.2.2.20](#))
 - **Type** (section [2.2.2.23.2](#))
 - **EstimatedDataSize** (section [2.2.2.13.3](#))
 - **Truncated** (section [2.2.2.21.2](#))
 - **Data** (section [2.2.2.11.2](#))
 - **Preview** (section [2.2.2.19.2](#))

3.2.5.2.3 Sync

The response message for the **Sync** command can include the following:

- **Attachments** (section [2.2.2.3](#))
 - **Attachment** (section [2.2.2.2](#))
 - **DisplayName** (section [2.2.2.12](#))
 - **FileReference** (section [2.2.2.14.1](#))

- **Method** (section [2.2.2.16](#))
- **EstimatedDataSize** (section [2.2.2.13.1](#))
- **ContentId** (section [2.2.2.8](#))
- **ContentLocation** (section [2.2.2.9](#))
- **IsInline** (section [2.2.2.15](#))
- **Body** (section [2.2.2.4](#))
 - **Type** (section [2.2.2.23.1](#))
 - **Truncated** (section [2.2.2.21.1](#))
 - **Data** (section [2.2.2.11.1](#))
- **BodyPart** (section [2.2.2.5](#))
 - **Type** (section [2.2.2.23.2](#))
 - **Truncated** (section [2.2.2.21.2](#))
 - **Data** (section [2.2.2.11.2](#))
- **NativeBodyType** (section [2.2.2.17](#))

3.2.6 Timer Events

None.

3.2.7 Other Local Events

None.

4 Protocol Examples

For examples of the **Search** command using this protocol, see [\[MS-ASCMD\]](#) section 4.11. For examples of the **ItemOperations** command using this protocol, see [\[MS-ASCMD\]](#) section 4.10.2 and [\[MS-ASCMD\]](#) section 4.10.4. For examples of the **Sync** command using this protocol, see [\[MS-ASCMD\]](#) section 4.5.7.

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

6 Appendix A: Full XML Schema

For ease of implementation, this section contains the contents of the AirSyncBase.xsd file, which represents the full XML schema for this protocol. The additional files that this schema file requires to operate correctly are listed in the following table.

File name	Defining specification
Email2.xsd	[MS-ASEMAIL] section 6.2
ItemOperations.xsd	[MS-ASCMD] section 6.19

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:email2="Email2"
  xmlns:itemoperations="ItemOperations" xmlns="AirSyncBase"
  targetNamespace="AirSyncBase" elementFormDefault="qualified"
  attributeFormDefault="unqualified">
  <xs:import namespace="Email2" schemaLocation="Email2.xsd"/>
  <xs:import namespace="ItemOperations" schemaLocation="ItemOperations.xsd"/>
  <xs:simpleType name="EmptyTag">
    <xs:restriction base="xs:string">
      <xs:maxLength value="0"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="FileReference" type="xs:string"/>
  <xs:element name="BodyPreference">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Type" type="xs:unsignedByte"/>
        <xs:element name="TruncationSize" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="AllOrNone" type="xs:boolean" minOccurs="0"/>
        <xs:element name="Preview" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
              <xs:minInclusive value="0"/>
              <xs:maxInclusive value="255"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="BodyPartPreference">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Type">
          <xs:simpleType>
            <xs:restriction base="xs:unsignedByte">
              <xs:minInclusive value="1"/>
              <xs:maxInclusive value="4"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="TruncationSize" type="xs:unsignedInt" minOccurs="0"/>
        <xs:element name="AllOrNone" type="xs:boolean" minOccurs="0"/>
        <xs:element name="Preview" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:unsignedInt">
```

```

        <xs:minInclusive value="0"/>
        <xs:maxInclusive value="255"/>
    </xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Body">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Type" type="xs:unsignedByte"/>
            <xs:element name="EstimatedDataSize" type="xs:unsignedInt"
                minOccurs="0"/>
            <xs:element name="Truncated" type="xs:boolean" minOccurs="0"/>
            <xs:element name="Data" type="xs:string" minOccurs="0"/>
            <xs:element name="Preview" type="xs:string" minOccurs="0"/>
            <xs:element ref="itemoperations:Part" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="BodyPart">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Status">
                <xs:simpleType>
                    <xs:restriction base="xs:unsignedByte">
                        <xs:enumeration value="1"/>
                        <xs:enumeration value="176"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
            <xs:element name="Type" type="xs:unsignedByte"/>
            <xs:element name="EstimatedDataSize" type="xs:unsignedInt"/>
            <xs:element name="Truncated" type="xs:boolean" minOccurs="0"/>
            <xs:element name="Data" type="xs:string" minOccurs="0"/>
            <xs:element name="Preview" type="xs:string" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="Attachments">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Attachment" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:all>
                        <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
                        <xs:element ref="FileReference"/>
                        <xs:element name="Method" type="xs:unsignedByte"/>
                        <xs:element name="EstimatedDataSize" type="xs:unsignedInt"/>
                        <xs:element name="ContentId" type="xs:string" minOccurs="0"/>
                        <xs:element name="ContentLocation" type="xs:string"
                            minOccurs="0"/>
                        <xs:element name="IsInline" type="xs:boolean" minOccurs="0"/>
                        <xs:element ref="email2:UmAttDuration" minOccurs="0"/>
                        <xs:element ref="email2:UmAttOrder" minOccurs="0"/>
                    </xs:all>
                </xs:complexType>
            </xs:element>

```

```
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="NativeBodyType" type="xs:unsignedByte" minOccurs="0"/>
<xs:element name="ContentType" type="xs:string" minOccurs="0"/>
<xs:group name="AllProps">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element ref="Body"/>
      <xs:element ref="BodyPart"/>
      <xs:element ref="Attachments"/>
      <xs:element ref="NativeBodyType"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
<xs:group name="TopLevelSchemaProps">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="Body" type="EmptyTag"/>
      <xs:element name="BodyPart" type="EmptyTag"/>
      <xs:element name="Attachments" type="EmptyTag"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
</xs:schema>
```

7 Appendix B: Product Behavior

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

- Microsoft Exchange Server 2007 Service Pack 1 (SP1)
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Windows 8.1 operating system

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

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

[<1> Section 3.2.5.1:](#) Exchange 2007 SP1 returns an HTTP error 500 instead of a **Status** value of 4 when multiple **BodyPreference** elements are present with the same value in the **Type** child element.

8 Change Tracking

This section identifies changes that were made to the [MS-ASAIRS] protocol document between the July 2014 and October 2014 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- 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
1.8 Vendor-Extensible Fields	Updated Type element reference section.	N	Content updated.
2.2.2 Elements	Updated descriptions of ContentId and ContentLocation in table.	N	Content updated.
2.2.2.10 ContentType	Defined the ContentType element.	Y	New content added.
3.1.5.1.3 Sync	Updated links for BodyPreference, Preview, and BodyPartPreference.	N	Content updated.
3.2.5.2.1 ItemOperations	Added child elements email2:UmAttDuration and email2:UmAttOrder.	Y	Content updated.
6 Appendix A: Full XML Schema	Added minOccurs="0" for element NativeBodyType.	Y	Content updated.
6 Appendix A: Full XML Schema	Added the ContentType element to the schema.	Y	Content updated.
Z Appendix B: Product Behavior	Removed Windows Communications Apps from list of supported products. Added Windows 8.1 operating system to list of supported products.	Y	Content updated.
Z Appendix B: Product Behavior	Removed Windows Communications Apps from list of supported products. Added Windows 8.1 operating system to list of supported products.	Y	Content updated.

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