[MS-ASAIR]S:
Exchange ActiveSync: AirSyncBase Namespace Protocol

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## Revision Summary

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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 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

1.1 Glossary

This document uses the following terms:

**Attachment object**: A set of properties that represents a file, Message object, or structured storage that is attached to a Message object and is visible through the attachments table for a Message object.

**base64 encoding**: A binary-to-text encoding scheme whereby an arbitrary sequence of bytes is converted to a sequence of printable ASCII characters, as described in [RFC4648].

**calendar**: A date range that shows availability, meetings, and appointments for one or more users or resources. See also Calendar object.

**Hypertext Markup Language (HTML)**: An application of the Standard Generalized Markup Language (SGML) that uses tags to mark elements in a document, as described in [HTML].

**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.

**message body**: The main message text of an email message. A few properties of a Message object represent its message body, with one property containing the text itself and others defining its code page and its relationship to alternative body formats.

**Message object**: A set of properties that represents an email message, appointment, contact, or other type of personal-information-management object. In addition to its own properties, a Message object contains recipient properties that represent the addressees to which it is addressed, and an attachments table that represents any files and other Message objects that are attached to it.

**message part**: A message body with a string property that contains only the portion of an email message that is original to the message. It does not include any previous, quoted messages. If a message does not quote a previous message, the message part is identical to the message body.

**message store**: A unit of containment for a single hierarchy of Folder objects, such as a mailbox or public folders.

**Multipurpose Internet Mail Extensions (MIME)**: A set of extensions that redefines and expands support for various types of content in email messages, as described in [RFC2045], [RFC2046], and [RFC2047].

**Object Linking and Embedding (OLE)**: A technology for transferring and sharing information between applications by inserting a file or part of a file into a compound document. The inserted file can be either embedded or linked. See also embedded object and linked object.

**orphan instance**: An instance of an event that is in a recurring series and is in a Calendar folder without the recurring series. For all practical purposes, this is a single instance.
plain text: Text that does not have markup. See also plain text message body.

recurring series: An event that repeats at specific intervals of time according to a recurrence pattern.

Rich Text Format (RTF): Text with formatting as described in [MSFT-RTF].

Unicode: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The Unicode standard [UNICODE5.0.0/2007] provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

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].

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 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-ASCAL] Microsoft Corporation, "Exchange ActiveSync: Calendar Class Protocol".


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

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

[MS-AISEMAIL] Microsoft Corporation, "Exchange ActiveSync: Email Class Protocol".


1.2.2 Informative References


[NGA-WGS84] NGA, "Department of Defense (DoD) World Geodetic System (WGS) 1984 - Its Definition and Relationships with Local Geodetic Systems", NGA.STND.0036_1.0.0_WGS84, Version 1.0.0, July 2014, http://earth-info.nga.mil/GandG/publications/NGA_STND_0036_1_0_0_WGS84/NGA.STND.0036_1.0.0_WGS84.pdf

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-AEMAIL]
- 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, MeetingResponse, Search, SmartForward 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 2.2.2.41.

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, MeetingResponse, Search, SmartForward, 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.

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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.

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<th>Description</th>
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<td>Accuracy</td>
<td>Specifies the accuracy of the values of the Latitude and Longitude elements.</td>
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<tr>
<td>Add</td>
<td>Adds an attachment to a calendar item or to a draft email item.</td>
</tr>
<tr>
<td>AllOrNone</td>
<td>Specifies whether to search, synchronize, or retrieve all or none of the content based on the TruncationSize element.</td>
</tr>
<tr>
<td>Altitude</td>
<td>Specifies the the altitude of an event's location.</td>
</tr>
<tr>
<td>Element name</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>AltitudeAccuracy</strong></td>
<td>Specifies the accuracy of the value of the <strong>Altitude</strong> element.</td>
</tr>
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</tr>
<tr>
<td><strong>Annotation</strong></td>
<td>Specifies a note about the location of an event.</td>
</tr>
<tr>
<td>(section 2.2.2.6)</td>
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<tr>
<td><strong>Attachment</strong></td>
<td>Specifies the attachment information for a single attachment item.</td>
</tr>
<tr>
<td>(section 2.2.2.7)</td>
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<tr>
<td><strong>Attachments</strong></td>
<td>Contains a collection of elements that specify one or more attachment items.</td>
</tr>
<tr>
<td>(section 2.2.2.8)</td>
<td></td>
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<tr>
<td><strong>Body</strong></td>
<td>Contains a collection of elements that specify a free-form, variable-length data field associated with a stored item on the server.</td>
</tr>
<tr>
<td>(section 2.2.2.9)</td>
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<tr>
<td><strong>BodyPart</strong></td>
<td>Contains a collection of elements that specify the <strong>message part</strong> of the body of an e-mail.</td>
</tr>
<tr>
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<tr>
<td><strong>BodyPartPreference</strong></td>
<td>Contains a collection of elements that set the preference information related to the type and size of information that is returned from searching, synchronizing, or fetching a <strong>BodyPart</strong>.</td>
</tr>
<tr>
<td>(section 2.2.2.11)</td>
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</tr>
<tr>
<td><strong>BodyPreference</strong></td>
<td>Contains a collection of elements that set the preference information related to the type and size of information that is returned from searching, synchronizing, or fetching.</td>
</tr>
<tr>
<td>(section 2.2.2.12)</td>
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</tr>
<tr>
<td><strong>City</strong></td>
<td>Specifies the city in which an event occurs.</td>
</tr>
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<td>(section 2.2.2.13)</td>
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<tr>
<td><strong>ClientId</strong></td>
<td>Specifies a client-generated temporary identifier that links to the file that is being added as an attachment.</td>
</tr>
<tr>
<td>(section 2.2.2.14)</td>
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</tr>
<tr>
<td><strong>Content</strong></td>
<td>Contains the content of the attachment that is being added.</td>
</tr>
<tr>
<td>(section 2.2.2.15)</td>
<td></td>
</tr>
<tr>
<td><strong>ContentId</strong></td>
<td>Contains an attachment’s unique object that is used to reference the attachment within the item to which the attachment belongs.</td>
</tr>
<tr>
<td>(section 2.2.2.16)</td>
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</tr>
<tr>
<td><strong>ContentLocation</strong></td>
<td>Contains an attachment’s relative URI, which is used to associate the attachment in other items.</td>
</tr>
<tr>
<td>(section 2.2.2.17)</td>
<td></td>
</tr>
<tr>
<td><strong>ContentType</strong></td>
<td>Specifies the type of data that is contained either in the <strong>Content</strong> element or in the <strong>itemoperation:Data</strong> element ([MS-ASCMD] section 2.2.3.39.2).</td>
</tr>
<tr>
<td>(section 2.2.2.18)</td>
<td></td>
</tr>
<tr>
<td><strong>Country</strong></td>
<td>Specifies the country in which an event occurs.</td>
</tr>
<tr>
<td>(section 2.2.2.19)</td>
<td></td>
</tr>
<tr>
<td><strong>Data</strong></td>
<td>Specifies the data associated with an item's <strong>Body</strong> element or <strong>BodyPart</strong> element.</td>
</tr>
<tr>
<td>(section 2.2.2.20)</td>
<td></td>
</tr>
<tr>
<td><strong>Delete</strong></td>
<td>Deletes an attachment from a calendar item or from a draft email item.</td>
</tr>
<tr>
<td>(section 2.2.2.21)</td>
<td></td>
</tr>
<tr>
<td><strong>DisplayName</strong></td>
<td>Specifies the display name of an attachment or the display name of an event's location.</td>
</tr>
<tr>
<td>(section 2.2.2.22)</td>
<td></td>
</tr>
<tr>
<td><strong>EstimatedDataSize</strong></td>
<td>Specifies an informational estimate of the size of the data associated with an item's <strong>Body</strong> element, <strong>BodyPart</strong> element, or <strong>Attachment</strong> element.</td>
</tr>
<tr>
<td>(section 2.2.2.23)</td>
<td></td>
</tr>
<tr>
<td><strong>FileReference</strong></td>
<td>Specifies the server-assigned unique identifier of an attachment.</td>
</tr>
<tr>
<td>(section 2.2.2.24)</td>
<td></td>
</tr>
<tr>
<td><strong>InstanceId</strong></td>
<td>Specifies the original, unmodified, UTC date and time of a particular instance of a recurring series.</td>
</tr>
<tr>
<td>(section 2.2.2.25)</td>
<td></td>
</tr>
<tr>
<td><strong>IsInline</strong></td>
<td>Specifies whether the attachment is embedded in the message.</td>
</tr>
<tr>
<td>(section 2.2.2.26)</td>
<td></td>
</tr>
<tr>
<td><strong>Latitude</strong></td>
<td>Specifies the latitude of the event's location.</td>
</tr>
<tr>
<td>(section 2.2.2.27)</td>
<td></td>
</tr>
<tr>
<td>Element name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Specifies details about the location of an event.</td>
</tr>
<tr>
<td><strong>LocationUri</strong></td>
<td>Specifies the URI for the location of an event.</td>
</tr>
<tr>
<td><strong>Longitude</strong></td>
<td>Specifies the longitude of the event’s location.</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>Identifies the method in which the attachment was attached.</td>
</tr>
<tr>
<td><strong>NativeBodyType</strong></td>
<td>Specifies the original format type of the item.</td>
</tr>
<tr>
<td><strong>Part</strong></td>
<td>Specifies the integer index into the metadata of the multipart response.</td>
</tr>
<tr>
<td><strong>PostalCode</strong></td>
<td>Specifies the postal code for the address of the event’s location.</td>
</tr>
<tr>
<td><strong>Preview</strong></td>
<td>Specifies the message preview or the maximum length of the message preview to be returned to the client.</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>Specifies the state or province in which an event occurs.</td>
</tr>
<tr>
<td><strong>Status</strong></td>
<td>Specifies the status of the Data element within the BodyPart response.</td>
</tr>
<tr>
<td><strong>Street</strong></td>
<td>Specifies the street address of the event’s location.</td>
</tr>
<tr>
<td><strong>Truncated</strong></td>
<td>Specifies whether the body or body part of the item has been truncated according to the BodyPreference element or the BodyPartPreference element.</td>
</tr>
<tr>
<td><strong>TruncationSize</strong></td>
<td>Specifies the size, in bytes, of the content that the client wants to search, synchronize, or fetch.</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Specifies the format type of the body content of the item.</td>
</tr>
</tbody>
</table>

### 2.2.2.1 Accuracy

The **Accuracy** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies the accuracy of the values of the **Latitude** element (section 2.2.2.27) and the **Longitude** element (section 2.2.2.30).

The **Accuracy** element is a **double** data type, as specified in [MS-ASDTYPE] section 2.4.

### 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
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</thead>
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<tr>
<td>2.5</td>
<td></td>
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<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
</tbody>
</table>
### 2.2.2.2 Add

The **Add** element is an optional child element of the **Attachments** element (section 2.2.8) that adds an attachment to a **calendar** item or to a draft email item.

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

- **ClientId** (section 2.2.14) — This element is required.
- **Content** (section 2.2.15) — This element is required.
- **ContentId** (section 2.2.16.1) — This element is optional.
- **ContentLocation** (section 2.2.17.1) — This element is optional.
- **ContentType** (section 2.2.18.1) — This element is optional.
- **DisplayName** (section 2.2.22.1) — This element is required.
- **IsInline** (section 2.2.26.1) — This element is optional.
- **Method** (section 2.2.31.1) — 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.3 AllOrNone

The AllOrNone element is a child element of the BodyPartPreference element (section 2.2.2.11) and the BodyPreference element (section 2.2.2.12) that specifies whether to search, synchronize, or retrieve all or none of the content based on the TruncationSize element (section 2.2.2.40).

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.

2.2.2.3.1 AllOrNone (BodyPartPreference)

The AllOrNone element is an optional child element of the BodyPartPreference element (section 2.2.2.11). 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 2.2.2.41.3). 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 2.2.2.9). 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:

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

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

The first BodyPartPreference element requests an HTML body, but only if the body size is less than 50 bytes. The second request 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1.1, in the request.
### 2.2.2.3.2 AllOrNone (BodyPreference)

The `AllOrNone` element is an optional child element of the `BodyPreference` element (section 2.2.2.12). 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 2.2.2.41.4). 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 2.2.2.9). 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.

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

<airsyncbase:BodyPreference>
  <airsyncbase:Type>1</airsyncbase:Type>
  <airsyncbase:TruncationSize>50</airsyncbase:TruncationSize>
</airsyncbase: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-ASAIRS].

<table>
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<tr>
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</thead>
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<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>

---

[MS-ASAIRS] - v20181211
Exchange ActiveSync: AirSyncBase Namespace Protocol
Copyright © 2018 Microsoft Corporation
Release: December 11, 2018
ASHTTP section 2.2.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.4 Altitude

The **Altitude** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies the altitude of an event’s location. The altitude is measured in meters above the WGS-84 ellipsoid, which is described in [NGA-WGS84].

The **Altitude** element is a **double** data type, as specified in [MS-ASDTYPE] section 2.4.

**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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.5 AltitudeAccuracy

The **AltitudeAccuracy** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies the accuracy of the value of the **Altitude** element (section 2.2.2.4).

The **AltitudeAccuracy** element is a **double** data type, as specified in [MS-ASDTYPE] section 2.4.
**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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
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<td>14.0</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.6 Annotation

The **Annotation** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies a note about the location of an event.

The **Annotation** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

**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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.7 Attachment

The Attachment element is a required child element of the Attachments element (section 2.2.2.8) 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.

The Attachment element has the following child elements, in any order, in a Sync command response ([MS-ASCMD] section 2.2.1.21) with a Commands element ([MS-ASCMD] section 2.2.3.32), an ItemOperations command response ([MS-ASCMD] section 2.2.1.10), or a Search command response ([MS-ASCMD] section 2.2.1.16):

- **DisplayName** (section 2.2.22.2). This element is optional.
- **FileReference** (section 2.2.24.1). This element is required.
- **Method** (section 2.2.31.2). This element is required.
- **EstimatedDataSize** (section 2.2.23.1). This element is required.
- **ContentId** (section 2.2.16.2). This element is optional.
- **ContentLocation** (section 2.2.17.2). This element is optional.
- **IsInline** (section 2.2.26.2). This element is optional.
- **email2:UmAttDuration** ([MS-ASEMAIL] section 2.2.81). This element is optional.
- **email2:UmAttOrder** ([MS-ASEMAIL] section 2.2.82). This element is optional.

The Attachment element has the following child elements, in any order, in a Sync command response with a Responses element ([MS-ASCMD] section 2.2.3.154):

- **ClientId** (section 2.2.14). This element is required.
- **FileReference** (section 2.2.24.1). 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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
</tbody>
</table>
The server returns the **Attachment** element in a **Sync** command response with a **Responses** element only when protocol version 16.0 or 16.1 is used.

### 2.2.2.8 Attachments

The **Attachments** element is an optional child element of the **airsync:ApplicationData** element ([MS-ASCMD] section 2.2.3.11), the **itemoperations:Properties** element ([MS-ASCMD] section 2.2.3.139.2), and the **search:Properties** element ([MS-ASCMD] section 2.2.3.139.3) that contains one or more attachment items.

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

- **Attachment** (section 2.2.2.7), in a **Sync** ([MS-ASCMD] section 2.2.1.21), **ItemOperations** ([MS-ASCMD] section 2.2.1.10), or **Search** ([MS-ASCMD] section 2.2.1.16) command response
- **Add** (section 2.2.2.2), in a **Sync** command request
- **Delete** (section 2.2.2.21), in a **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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>16.0</td>
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</tr>
</tbody>
</table>

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.

### 2.2.2.9 Body

The **Body** element is an optional child element of the **airsync:ApplicationData** element ([MS-ASCMD] section 2.2.3.11), the **itemoperations:Properties** element ([MS-ASCMD] section 2.2.3.139.2), the **search:Properties** element ([MS-ASCMD] section 2.2.3.139.3), the **meetingresponse:SendResponse** element ([MS-ASCMD] section 2.2.3.163), and the **composemail:SmartForward** element ([MS-ASCMD] section 2.2.3.169) 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 2.2.2.41.1): This element is required.
- **EstimatedDataSize** (section 2.2.2.23.2): This element is optional.
- **Truncated** (section 2.2.2.39.1). This element is optional.
- **Data** (section 2.2.2.20.1): This element is optional.
- **Part** (section 2.2.2.33): This element is optional.
- **Preview** (section 2.2.2.35.1): This element is optional.

When the **Body** element is a child of the **meetingresponse:SendResponse** element or the **composemail:SmartForward** element, it has only the child elements **Type** and **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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
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<td>Yes</td>
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<tr>
<td>14.0</td>
<td>Yes</td>
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<tr>
<td>14.1</td>
<td>Yes</td>
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<tr>
<td>16.0</td>
<td>Yes</td>
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<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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-ASENDMAIL], and [MS-ASTASK] documents.

The **Body** element is a child of the **meetingresponse:SendResponse** element and the **composemail:SmartForward** element only when protocol version 16.0 or 16.1 is used.

**2.2.2.10  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 2.2.2.11) 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 2.2.2.37). This element is required.
- **Type** (section 2.2.2.41.2). This element is required.
- **EstimatedDataSize** (section 2.2.2.23.3). This element is required.
- **Truncated** (section 2.2.2.39.2). This element is optional.
- **Data** (section 2.2.2.20.2). This element is optional.
- **Preview** (section 2.2.2.35.2). 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>16.0</td>
<td>Yes</td>
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<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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2.2.2.11 **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 2.2.3.125) 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 2.2.2.41.3). This element is required.
- **TruncationSize** (section 2.2.2.40.1). This element is optional.
- **AllOrNone** (section 2.2.2.3.1). This element is optional.
- **Preview** (section 2.2.2.35.3). 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 2.2.2.10) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tbody>
</table>

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### 2.2.2.12 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 2.2.2.41.4). This element is required.
- **TruncationSize** (section 2.2.2.40.2). This element is optional.
- **AllOrNone** (section 2.2.2.3.2). This element is optional.
- **Preview** (section 2.2.35.4). 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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>16.0</td>
<td>Yes</td>
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<td>16.1</td>
<td>Yes</td>
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</tbody>
</table>

2.2.2.13  **City**

The `City` element is an optional child element of the `Location` element (section 2.2.28) that specifies the city in which an event occurs.

The `City` element is a string data type, as specified in [MS-ASDTYPE] section 2.7.

**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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tbody>
</table>
## 2.2.2.14 ClientId

The **ClientId** element is a required child element of the **Add** element (section 2.2.2.2) in a **Sync** command request ([MS-ASCMD] section 2.2.1.21) and a required child element of the **Attachment** element (section 2.2.2.7) in a **Sync** command response. The **ClientId** element specifies a client-generated temporary identifier that links to the file that is being added as an attachment.

The **ClientId** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

The server will return the **ClientId** element along with the **FileReference** element (section 2.2.2.24.1) as child elements of the **Attachment** element in response to a **Sync** command request that adds an attachment either to a calendar item or to a draft email item.

### 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>16.0</td>
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<tr>
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<td>Yes</td>
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</tbody>
</table>

## 2.2.2.15 Content

The **Content** element is a required child element of the **Add** element (section 2.2.2.2) that contains the content of the attachment that is being added.

The **Content** element is a **string** data type **byte array**, as specified in [MS-ASDTYPE] section 2.7.1.

### 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tbody>
</table>
2.2.2.16  ContentId

The **ContentId** element is a child element of the **Add** element (section 2.2.2) and the **Attachment** element (section 2.2.2.7). For more details about the **ContentId** element, see sections 2.2.2.16.1 and 2.2.2.16.2.

2.2.2.16.1  ContentId (Add)

The **ContentId** element is an optional child element of the **Add** element (section 2.2.2) that specifies the unique object identifier of an attachment that is being added to a calendar item or to a draft email item. This identifier is used to reference the attachment within the item to which the attachment belongs.

The **ContentId** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

The **Add** element MUST have a maximum of one **ContentId** 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.16.2  ContentId (Attachment)

The **ContentId** element is an optional child element of the **Attachment** element (section 2.2.2.7) that contains the unique identifier of the attachment, and is used to reference the attachment within the item to which the attachment belongs.

The **ContentId** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

A command response MUST have a maximum of one **ContentId** element per **Attachment** 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tbody>
</table>

2.2.2.17  ContentLocation

The **ContentLocation** element is a child element of the **Add** element (section 2.2.2) and the **Attachment** element (section 2.2.2.7). For more details about the **ContentLocation** element, see sections 2.2.2.17.1 and 2.2.2.17.2.

2.2.2.17.1  ContentLocation (Add)

The **ContentLocation** element is an optional child element of the **Add** element (section 2.2.2) that specifies the relative **URI** for an attachment that is being added to a **calendar** item or to a draft email item. This URI is used to associate the attachment in other items.

The **ContentLocation** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

The **Add** element MUST have a maximum of one **ContentLocation** 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.
2.2.2.17.2  ContentLocation (Attachment)

The **ContentLocation** element is an optional child element of the **Attachment** element (section 2.2.2.7) 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 2.7.

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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</table>

2.2.2.18  ContentType

The **ContentType** element is a child element of the **Add** element (section 2.2.2.2) and the **itemoperations:Properties** element ([MS-ASCMD] section 2.2.3.139.2). For more details about the **ContentType** element, see sections 2.2.2.18.1 and 2.2.2.18.2.
## 2.2.2.18.1 ContentType (Add)

The `ContentType` element is an optional child element of the `Add` element (section 2.2.2) that specifies the type of data contained in the `Content` element (section 2.2.2.15) for an attachment that is being added to a calendar item or to a draft email item.

The `ContentType` element is a `string` data type, as specified in [MS-ASDTYPE] section 2.7.

The `Add` element MUST have a maximum of one `ContentType` 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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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## 2.2.2.18.2 ContentType (Properties)

The `ContentType` element is an optional child element of the `itemoperations:Properties` element ([MS-ASCMD] section 2.2.3.139.2) that specifies the type of data returned in the `itemoperations:Data` element ([MS-ASCMD] section 2.2.3.39.2) of an `ItemOperations` command response ([MS-ASCMD] section 2.2.1.10).

The value of this element is a `string` data type, as specified in [MS-ASDTYPE] section 2.7.

### 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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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### 2.2.2.19  Country

The **Country** element is an optional child element of the **Location** element (section 2.2.28) that specifies the country in which an event occurs.

The **Country** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

#### 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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### 2.2.2.20  Data

The **Data** element is a child element of the **Body** element (section 2.2.9) and the **BodyPart** element (section 2.2.10) that contains the data of the message body 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 2.7.

#### 2.2.2.20.1  Data (Body)

The **Data** element is an optional child element of the **Body** element (section 2.2.9). 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 2.2.1.10.1.
The content of the **Data** element is returned as a **string** in the format that is specified by the **Type** element (section 2.2.2.41.1). 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 2.2.2.39.1) is included in the response, the data in the **Data** element is truncated. The **EstimatedDataSize** element (section 2.2.2.23.2) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**2.2.2.20.2 Data (BodyPart)**

The **Data** element is an optional child element of the **BodyPart** element (section 2.2.2.10). 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 2.2.2.41.2). 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 2.2.2.39.2) is included in the response, then the data in the **Data** element is truncated. The **EstimatedDataSize** element (section 2.2.2.23.3) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
<td>------------------</td>
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<tr>
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<tr>
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<tr>
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<td>Yes</td>
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<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.21 Delete

The **Delete** element is an optional child element of the **Attachments** element (section 2.2.8) that deletes an attachment from a calendar item or from a draft email item.

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

- **FileReference** (section 2.2.24.2) — 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1.1, in the request.

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<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.22 DisplayName

The **DisplayName** element is a child element of the **Add** element (section 2.2.2), the **Attachment** element (section 2.2.7), and the **Location** element (section 2.2.28). For more details about the **DisplayName** element, see sections 2.2.22.1 through 2.2.22.3.

#### 2.2.22.1 DisplayName (Add)
The **DisplayName** element is a required child element of the **Add** element (section 2.2.2.2) that specifies the display name of an attachment that is being added to a **calendar** item or to a draft email item.

The **DisplayName** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

The **Add** element MUST have a maximum of one **DisplayName** 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>

#### 2.2.2.2.2 **DisplayName** (Attachment)

The **DisplayName** element is an optional child element of the **Attachment** element (section 2.2.2.7) that specifies the display name of the attachment.

The value of this element is a **string** value ([MS-ASDTYPE] section 2.7).

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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<tr>
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<td>Yes</td>
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</tbody>
</table>
### 2.2.2.22.3 DisplayName (Location)

The `DisplayName` element is an optional child element of the `Location` element (section 2.2.28) that specifies the display name of an event's location.

The `DisplayName` element is a string data type, as specified in [MS-ASDTYPE] section 2.7.

The `Location` element MUST have a maximum of one `DisplayName` 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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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### 2.2.2.23 EstimatedDataSize

The `EstimatedDataSize` element is a child element of the `Attachment` element (section 2.2.2.7), the `Body` element (section 2.2.2.9), and the `BodyPart` element (section 2.2.2.10) 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 2.6).

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.

#### 2.2.2.23.1 EstimatedDataSize (Attachment)

The `EstimatedDataSize` element is required child element of the `Attachment` element (section 2.2.2.7).
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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.23.2 EstimatedDataSize (Body)

The EstimatedDataSize element is an optional child element of the Body element (section 2.2.9). 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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>
### 2.2.2.23.3 EstimatedDataSize (BodyPart)

The `EstimatedDataSize` element is a required child element of the `BodyPart` element (section 2.2.2.10). 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 2.2.1.1.2.6, or the `Protocol version` field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.24 FileReference

The `FileReference` element is a child element of the `itemoperations:Fetch` element ([MS-ASCMD] section 2.2.3.67.1), the `Delete` element (section 2.2.2.21), and the `Attachment` element (section 2.2.2.7). For more details about the `FileReference` element, see sections 2.2.2.24.1 through 2.2.2.24.3.

#### 2.2.2.24.1 FileReference (Attachment)

The `FileReference` element is a required child element of the `Attachment` element (section 2.2.2.7) that specifies the location of an item on the server to retrieve.

The `FileReference` element is a `string` data type, as specified in [MS-ASDTYPE] section 2.7.

**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-
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Release: December 11, 2018

In protocol version 16.0 and 16.1, the server will return the **FileReference** element along with the **ClientId** element (section 2.2.2.14) as child elements of the **Attachment** element in response to a **Sync** command request ([MS-ASCMD] section 2.2.1.21) that adds an attachment either to a **calendar** item or to a draft email item. The client MUST record the value of the **FileReference** element that is returned. This value will be used to specify the attachment in a future **Sync** command request if the client deletes the attachment.

### 2.2.2.24.2 FileReference (Delete)

The **FileReference** element is a required child element of the **Delete** element (section 2.2.2.21) that specifies the server-assigned unique identifier of the attachment to be deleted.

The **FileReference** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

A unique identifier is assigned to the attachment when the attachment is added. This identifier is returned to the client in the **FileReference** element of the **Sync** command response, as specified in section 2.2.2.24.1. To specify a particular attachment for deletion, the client uses the same identifier that was returned in the **FileReference** element when the attachment was added.

**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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
The **FileReference** element is not supported as a child of the **Delete** element in protocol versions 2.5, 12.0, 12.1, 14.0, and 14.1.

### 2.2.2.24.3 FileReference (Fetch)

In an **ItemOperations** command request (as specified in [MS-ASCMD] section 2.2.1.10), the **FileReference** element is an optional child element of the **itemoperations:Fetch** element (as specified in [MS-ASCMD] section 2.2.3.67.1). The **FileReference** element specifies a unique identifier that is assigned by the server to each **Attachment object** to a **Message object**.

The **FileReference** element is a string data type, as specified in [MS-ASDTYPE] section 2.7.

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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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</tr>
<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.25 InstanceId

The **InstanceId** element specifies the original, unmodified, UTC date and time of a particular instance of a **recurring series**. The **InstanceId** element is a child element of the **calendar:Exception** element ([MS-ASCAL] section 2.2.2.21) in a **Sync** command request and response ([MS-ASCMD] section 2.2.1.21) and a child element of the **airsync:ApplicationData** element ([MS-ASCMD] section 2.2.3.11) in a **Sync** command response for an **orphan instance**. The **InstanceId** element is a child element of the **airsync:Change** element ([MS-ASCMD] section 2.2.3.24) or the **airsync:Delete** element ([MS-ASCMD] section 2.2.3.42.2) in a **Sync** command request. The server will include the **InstanceId** element along with the **ServerId** element ([MS-ASCMD] section 2.2.3.166.8) in any **Sync** command response to the client’s **Sync** command request.

The value of this element is a string data type, as specified in [MS-ASDTYPE] section 2.7. The string MUST be formatted as a **Compact DateTime**, as specified in [MS-ASDTYPE] section 2.7.2.

**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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1.1, in the request.

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2.2.2.26  IsInline

The IsInline element is a child element of the Add element (section 2.2.2) and the Attachment element (section 2.2.2.7). For more details about the IsInline element, see sections 2.2.2.26.1 and 2.2.2.26.2.

2.2.2.26.1  IsInline (Add)

The IsInline element is an optional child element of the Add element (section 2.2.2) that indicates whether the attachment being added is embedded in the message.

The IsInline element is an empty tag element, meaning it has no value or data type. It is distinguished only by the presence or absence of the <IsInline/> tag. Presence of the tag indicates that the attachment is embedded in the message; absence indicates that the attachment is not embedded.

The Add element MUST have a maximum of one IsInline 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1.1, in the request.

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### 2.2.2.26.2 IsInline (Attachment)

The *IsInline* element is an optional child element of the *Attachment* element (section 2.2.2.7) 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the *Protocol version* field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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### 2.2.2.27 Latitude

The *Latitude* element is an optional child element of the *Location* element (section 2.2.2.28) that specifies the latitude of the event's location.

The *Latitude* element is a **double** data type, as specified in [MS-ASDTYPE] section 2.4.

#### 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the *Protocol version* field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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### 2.2.2.28 Location

The Location element specifies details about the location of an event. This element is an optional child element of the following elements:

- **airsync:ApplicationData** ([MS-ASCMD] section 2.2.3.11), in a command request or a command response
- **itemoperations:Schema** ([MS-ASCMD] section 2.2.3.158), in a command request
- **itemoperations:Properties** ([MS-ASCMD] section 2.2.3.139.2), in a command response
- **search:Properties** ([MS-ASCMD] section 2.2.3.139.3), in a command response
- **calendar:Exception** ([MS-ASCAL] section 2.2.2.21), in a command request or a command response
- **email:MeetingRequest** ([MS-ASEMAIL] section 2.2.2.48), in a command response

The Location element is container data type, as specified in [MS-ASDTYPE] section 2.2. The client's request can include an empty Location element to remove the location from an item. The Location element has the following child elements, all of which are optional:

- **Accuracy** (section 2.2.2.1)
- **Altitude** (section 2.2.2.4)
- **AltitudeAccuracy** (section 2.2.2.5)
- **Annotation** (section 2.2.2.6)
- **City** (section 2.2.2.13)
- **Country** (section 2.2.2.19)
- **DisplayName** (section 2.2.2.22.3)
- **Latitude** (section 2.2.2.27)
- **LocationUri** (section 2.2.2.29)
- **Longitude** (section 2.2.2.30)
- **PostalCode** (section 2.2.2.34)
- **State** (section 2.2.36)
- **Street** (section 2.2.38)

**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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The **calendar:Location** element, as specified in [MS-ASCAL] section 2.2.27, and the **email:Location** element, as specified in [MS-ASEMAIL] section 2.2.2.46, are used with protocol versions 2.5, 12.0, 12.1, 14.0, and 14.1 instead of the **Location** element of the **AirSyncBase** namespace.

**2.2.2.29 LocationUri**

The **LocationUri** element is an optional child element of the **Location** element (section 2.2.28) that specifies the **URI** for the location of an event.

The **LocationUri** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

**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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### 2.2.2.30 Longitude

The **Longitude** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies the longitude of the event's location.

The **Longitude** element is a **double** data type, as specified in [MS-ASDTYPE] section 2.4.

### 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-ASPProtocolVersion header, as specified in [MS-ASHTTP] section 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.31 Method

The **Method** element is a child element of the **Add** element (section 2.2.2.2) and the **Attachment** element (section 2.2.2.7). For more details about the **Method** element, see sections 2.2.2.31.1 and 2.2.2.31.2.

#### 2.2.2.31.1 Method (Add)

The **Method** element is a required child element of the **Add** element (section 2.2.2.2) that identifies the method in which the attachment to be added was attached.

The **Method** element is an **unsignedByte** data type, as specified in [MS-ASDTYPE] section 2.8.

The **Add** element MUST have a maximum of one **Method** element. The following table lists the possible values of the **Method** element as a child element of the **Add** element.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>Meaning</td>
<td>Notes</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>5</td>
<td>Embedded message</td>
<td>The attachment is an email message and the attachment file has an .eml extension. This value is valid only for a draft email item.</td>
</tr>
</tbody>
</table>

### 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
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<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### 2.2.2.31.2 Method (Attachment)

The **Method** element is a required child element of the **Attachment** element (section 2.2.7) that identifies the method in which the attachment was attached.

The **Method** element is an **unsignedByte** data type, as specified in [MS-ASDTYPE] section 2.8.

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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Normal attachment</td>
<td>The attachment is a normal attachment. This is the most common value.</td>
</tr>
<tr>
<td>2</td>
<td>Reserved</td>
<td>Do not use.</td>
</tr>
<tr>
<td>3</td>
<td>Reserved</td>
<td>Do not use.</td>
</tr>
<tr>
<td>4</td>
<td>Reserved</td>
<td>Do not use.</td>
</tr>
<tr>
<td>5</td>
<td>Embedded message</td>
<td>Indicates that the attachment is an e-mail message, and that the attachment file has an .eml extension.</td>
</tr>
<tr>
<td>6</td>
<td>Attach OLE</td>
<td>Indicates that the attachment is an embedded Object Linking and Embedding (OLE) object, such as an inline image.</td>
</tr>
</tbody>
</table>
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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
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<tr>
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<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2.2.32 NativeBodyType

The NativeBodyType element is an optional child element of the airsrec: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 2.8).

A command response MUST have a maximum of one NativeBodyType element per airsrec: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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plain text</td>
</tr>
<tr>
<td>2</td>
<td>HTML</td>
</tr>
<tr>
<td>3</td>
<td>RTF</td>
</tr>
</tbody>
</table>

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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.
### 2.2.2.33 Part

The *itemoperations:Part* element ([MS-ASCMD] section 2.2.3.130) is an optional child element of the *Body* element (section 2.2.2.9) 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 2.2.1.10.1. This element MUST NOT be present in requests or non-multipart responses.

The value of this element is an integer ([MS-ASDTYPE] section 2.6).

#### 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 2.2.1.1.2.6, or the *Protocol version* field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
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</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.34 PostalCode

The *PostalCode* element is an optional child element of the *Location* element (section 2.2.2.8) that specifies the postal code for the address of the event's location.

The *PostalCode* element is a *string* data type, as specified in [MS-ASDTYPE] section 2.7.

#### 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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.35 Preview

The **Preview** element is a child element of the **Body** element (section 2.2.2.9), the **BodyPart** element (section 2.2.2.10), the **BodyPartPreference** element (section 2.2.2.11), and the **BodyPreference** element (section 2.2.2.12).

#### 2.2.2.35.1 Preview (Body)

The **Preview** element is an optional child element of the **Body** element (section 2.2.2.9) 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 2.7). 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 2.2.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
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</tr>
<tr>
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</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
## 2.2.2.35.2 Preview (BodyPart)

The **Preview** element is an optional child element of the **BodyPart** element (section 2.2.10) 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 2.7). 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 2.2.2.11) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
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</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## 2.2.2.35.3 Preview (BodyPartPreference)

The **Preview** element is an optional child element of the **BodyPartPreference** element (section 2.2.2.11) 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 2.6). 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2.2.35.4 Preview (BodyPreference)

The Preview element is an optional child element of the BodyPreference element (section 2.2.2.12) 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 2.6). 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td></td>
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<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.36  State

The State element is an optional child element of the Location element (section 2.2.28) that specifies the state or province in which an event occurs.

The State element is a string data type, as specified in [MS-ASDTYPE] section 2.7.

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td></td>
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<tr>
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<td></td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2.2.37  Status

The Status element is a required child element of the BodyPart element (section 2.2.10) that indicates the success or failure of the response in returning Data element content (section 2.2.20.2) given the BodyPartPreference element settings (section 2.2.21) in the request.

The Status element is an enumeration data type, as specified in [MS-ASDTYPE] section 2.5.

The following table lists valid values for the Status element.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Success.</td>
</tr>
<tr>
<td>176</td>
<td>The message part is too large.</td>
</tr>
</tbody>
</table>

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.
### 2.2.2.38 Street

The **Street** element is an optional child element of the **Location** element (section 2.2.2.28) that specifies the street address of the event’s location.

The **Street** element is a **string** data type, as specified in [MS-ASDTYPE] section 2.7.

#### 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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 2.2.2.39 Truncated

The **Truncated** element is a child element of the **Body** element (section 2.2.2.9) and the **BodyPart** element (section 2.2.2.10). 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.

#### 2.2.2.39.1 Truncated (Body)
The **Truncated** element is an optional child element of the **Body** element (section 2.2.2.9) that specifies whether the body of the item has been truncated according to the **BodyPreference** element (section 2.2.2.12) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

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<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

When protocol version 16.0 or 16.1 is used, the **Truncated** element MUST NOT be included in a command request.

#### 2.2.2.39.2 Truncated (BodyPart)

The **Truncated** element is an optional child element of the **BodyPart** element (section 2.2.2.10) that specifies whether the body of the item has been truncated according to the **BodyPartPreference** element (section 2.2.2.11) 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
</tbody>
</table>
The TruncationSize element is a child element of the BodyPartPreference element (section 2.2.2.11) and the BodyPreference element (section 2.2.2.12). The value of this element is an integer value ([MS-ASDTYPE] section 2.6) that specifies the size, in bytes, of the content that the user wants to search, synchronize, or fetch.

### 2.2.2.40.1 TruncationSize (BodyPartPreference)

The TruncationSize element is an optional child element of the BodyPartPreference element (section 2.2.2.11).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.40.2 TruncationSize (BodyPreference)

The TruncationSize element is an optional child element of the BodyPreference type (section 2.2.2.12).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2.2.41 Type

The Type element is a child element of the Body element (section 2.2.2.9), the BodyPart element (section 2.2.2.10), the BodyPartPreference element (section 2.2.2.11), and the BodyPreference element (section 2.2.2.12). The value of this element is an unsignedByte value ([MS-ASDTYPE] section 2.8) that indicates the format type of the body content of the item.

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plain text</td>
</tr>
<tr>
<td>2</td>
<td>HTML</td>
</tr>
<tr>
<td>3</td>
<td>RTF</td>
</tr>
<tr>
<td>4</td>
<td>MIME</td>
</tr>
</tbody>
</table>
2.2.2.41.1 Type (Body)

The Type element is a required child element of the Body element (section 2.2.2.9).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

For calendar items in protocol version 16.0 or 16.1, the only valid values for this element are 1 (plain text) and 2 (HTML).

2.2.2.41.2 Type (BodyPart)

The Type element is a required child element of the BodyPart element (section 2.2.2.10).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2.2.2.41.3 Type (BodyPartPreference)

The Type element is a required child element of the BodyPartPreference element (section 2.2.2.11).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

2.2.2.41.4 Type (BodyPreference)

The Type element is a required child element of the BodyPreference element (section 2.2.2.12).

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 2.2.1.1.2.6, or the Protocol version field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>12.1</td>
<td></td>
</tr>
<tr>
<td>14.0</td>
<td></td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
<tr>
<td>Protocol version</td>
<td>Element support</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TopLevelSchemaProps</td>
<td>Identifies the <strong>Body</strong> element (section 2.2.2.9), <strong>BodyPart</strong> element (section 2.2.2.10), and the <strong>Attachments</strong> element (section 2.2.2.8) as being part of the <strong>TopLevelSchemaProps</strong> group.</td>
</tr>
</tbody>
</table>

#### 2.2.3.1 TopLevelSchemaProps

The **TopLevelSchemaProps** group identifies the **Body** element (section 2.2.2.9), the **BodyPart** element (section 2.2.2.10), and the **Attachments** element (section 2.2.2.8) as being part of the **TopLevelSchemaProps** group. The **TopLevelSchemaProps** group is used by the **ItemOperations** command request specified in [MS-ASCMD] section 2.2.1.10.

### 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 2.2.1.1.2.6, or the **Protocol version** field, as specified in [MS-ASHTTP] section 2.2.1.1.1, in the request.

<table>
<thead>
<tr>
<th>Protocol version</th>
<th>Element support</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>12.0</td>
<td>Yes</td>
</tr>
<tr>
<td>12.1</td>
<td>Yes</td>
</tr>
<tr>
<td>14.0</td>
<td>Yes</td>
</tr>
<tr>
<td>14.1</td>
<td>Yes</td>
</tr>
<tr>
<td>16.0</td>
<td>Yes</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
<tr>
<td>Protocol version</td>
<td>Element support</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>16.1</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ItemOperations</td>
<td>Retrieves an item from the server.</td>
</tr>
<tr>
<td>MeetingResponse</td>
<td>Specifies a user's response to a meeting request.</td>
</tr>
<tr>
<td>Search</td>
<td>Searches the server for items that match the specified criteria.</td>
</tr>
<tr>
<td>SmartForward</td>
<td>Forwards messages without retrieving the full, original message from the server.</td>
</tr>
<tr>
<td>Sync</td>
<td>Synchronizes changes in a collections set between the client and the server.</td>
</tr>
</tbody>
</table>

3.1.5.1.1 ItemOperations

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

- **FileReference** (section 2.2.24.3)
- **BodyPreference** (section 2.2.2.12)
  - **Type** (section 2.2.2.41.4)
  - **TruncationSize** (section 2.2.2.40.2)
  - **AllOrNone** (section 2.2.2.3.2)
  - **Preview** (section 2.2.2.35.4)
3.1.5.1.2 MeetingResponse

The request message for the MeetingResponse command can include the following elements:

- **Body** (section 2.2.2.9)
  - **Type** (section 2.2.2.41.1)
  - **Data** (section 2.2.2.20.1)

3.1.5.1.3 Search

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

- **BodyPreference** (section 2.2.2.12)
  - **Type** (section 2.2.2.41.4)
  - **TruncationSize** (section 2.2.2.40.2)
  - **AllOrNone** (section 2.2.2.3.2)
  - **Preview** (section 2.2.2.35.4)
- **BodyPartPreference** (section 2.2.2.11)
  - **Type** (section 2.2.2.41.3)
  - **TruncationSize** (section 2.2.2.40.1)
  - **AllOrNone** (section 2.2.2.3.1)
  - **Preview** (section 2.2.2.35.3)

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.

### 3.1.5.1.4 SmartForward

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

- **Body** (section 2.2.2.9)
  - **Type** (section 2.2.2.41.1)
  - **Data** (section 2.2.2.20.1)

### 3.1.5.1.5 Sync

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

- **BodyPreference** (section 2.2.2.12)
  - **Type** (section 2.2.2.41.4)
  - **TruncationSize** (section 2.2.2.40.2)
  - **AllOrNone** (section 2.2.2.3.2)
  - **Preview** (section 2.2.2.35.4)

- **BodyPartPreference** (section 2.2.2.11)
  - **Type** (section 2.2.2.41.3)
  - **TruncationSize** (section 2.2.2.40.1)
  - **AllOrNone** (section 2.2.2.3.1)
  - **Preview** (section 2.2.2.35.3)

- **InstanceId** (section 2.2.2.25)

- **Location** (section 2.2.2.28)
  - **DisplayName** (section 2.2.2.22.3)
  - **Annotation** (section 2.2.2.6)
  - **Street** (section 2.2.2.38)
  - **City** (section 2.2.2.13)
  - **State** (section 2.2.2.36)
  - **Country** (section 2.2.2.19)
- **PostalCode** (section 2.2.34)
- **Latitude** (section 2.2.27)
- **Longitude** (section 2.2.30)
- **Accuracy** (section 2.2.1)
- **Altitude** (section 2.2.4)
- **AltitudeAccuracy** (section 2.2.5)
- **LocationUri** (section 2.2.29)
- **Attachments** (section 2.2.8)
  - **Add** (section 2.2.2)
    - **ClientId** (section 2.2.14)
    - **Method** (section 2.2.31.1)
    - **ContentType** (section 2.2.18.1)
    - **Content** (section 2.2.15)
    - **DisplayName** (section 2.2.22.1)
    - **ContentId** (section 2.2.16.1)
    - **ContentLocation** (section 2.2.17.1)
    - **IsInline** (section 2.2.26.1)
  - **Delete** (section 2.2.21)
    - **FileReference** (section 2.2.24.2)

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 2.2.1.10) or a Search command (as specified in [MS-ASCMD] section 2.2.1.16), and protocol status error 6 for a Sync command (as specified in [MS-ASCMD] section 2.2.1.21).

<table>
<thead>
<tr>
<th>Element name</th>
<th>Condition</th>
<th>Protocol Status Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>BodyPreference</td>
<td>Child elements are not in the correct order.</td>
<td>4 (for Sync command)</td>
</tr>
<tr>
<td>BodyPreference</td>
<td>Multiple BodyPreference elements are present with the same value in the Type child element</td>
<td>Server SHOULD return 4 (for Sync command), but MAY return an HTTP error 500. &lt;1&gt;</td>
</tr>
<tr>
<td>AllOrNone</td>
<td>The AllOrNone element is not of type boolean.</td>
<td>4 (for Sync command)</td>
</tr>
<tr>
<td>AllOrNone</td>
<td>Multiple AllOrNone elements in a single BodyPreference element.</td>
<td>4 (for Sync command)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ItemOperations</td>
<td>Retrieves an item from the server.</td>
</tr>
<tr>
<td>Search</td>
<td>Searches the server for items that match the specified criteria.</td>
</tr>
<tr>
<td>Sync</td>
<td>Synchronizes changes in a collections set between the client and the server.</td>
</tr>
</tbody>
</table>

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 elements:

- Attachments (section 2.2.2.8)
- **Attachment** (section 2.2.2.7)
  - **DisplayName** (section 2.2.22.2)
  - **FileReference** (section 2.2.24.1)
  - **Method** (section 2.2.31.2)
  - **EstimatedDataSize** (section 2.2.23.1)
  - **ContentId** (section 2.2.16.2)
  - **ContentLocation** (section 2.2.17.2)
  - **IsInline** (section 2.2.26.2)
  - **email2:UmAttDuration** ([MS-ASEMAIL] section 2.2.81)
  - **email2:UmAttOrder** ([MS-ASEMAIL] section 2.2.82)
- **Body** (section 2.2.9)
  - **Type** (section 2.2.41.1)
  - **EstimatedDataSize** (section 2.2.23.2)
  - **Truncated** (section 2.2.39.1)
  - **Data** (section 2.2.20.1)
  - **itemoperations:Part** (section 2.2.33)
  - **Preview** (section 2.2.35.1)
- **BodyPart** (section 2.2.10)
  - **Status** (section 2.2.37)
  - **Type** (section 2.2.41.2)
  - **EstimatedDataSize** (section 2.2.23.3)
  - **Truncated** (section 2.2.39.2)
  - **Data** (section 2.2.20.2)
  - **Preview** (section 2.2.35.2)
- **ContentType** (section 2.2.18.2)
- **Location** (section 2.2.28)
  - **DisplayName** (section 2.2.22.3)
  - **Annotation** (section 2.2.6)
  - **Street** (section 2.2.38)
  - **City** (section 2.2.13)
  - **State** (section 2.2.36)
  - **Country** (section 2.2.19)
3.2.5.2.2 Search

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

- **Attachments** (section 2.2.2.8)
  - **Attachment** (section 2.2.2.7)
    - **DisplayName** (section 2.2.2.22.2)
    - **FileReference** (section 2.2.2.24.1)
    - **Method** (section 2.2.2.31.2)
    - **EstimatedDataSize** (section 2.2.2.23.1)
    - **ContentId** (section 2.2.2.16.2)
    - **ContentLocation** (section 2.2.2.17.2)
    - **IsInline** (section 2.2.2.26.2)
    - **email2:UmAttDuration** ([MS-ASEMAIL] section 2.2.2.81)
    - **email2:UmAttOrder** ([MS-ASEMAIL] section 2.2.2.82)
- **Body** (section 2.2.2.9)
  - **Type** (section 2.2.2.41.1)
  - **EstimatedDataSize** (section 2.2.2.23.2)
  - **Truncated** (section 2.2.2.39.1)
  - **Data** (section 2.2.2.20.1)
  - **Preview** (section 2.2.2.35.1)
- **BodyPart** (section 2.2.2.10)
  - **Status** (section 2.2.2.37)
  - **Type** (section 2.2.2.41.2)
  - **EstimatedDataSize** (section 2.2.2.23.3)
  - **Truncated** (section 2.2.2.39.2)
  - **Data** (section 2.2.2.20.2)
• Preview (section 2.2.35.2)

• Location (section 2.2.28)
  • DisplayName (section 2.2.22.3)
  • Annotation (section 2.2.6)
  • Street (section 2.2.38)
  • City (section 2.2.13)
  • State (section 2.2.36)
  • Country (section 2.2.19)
  • PostalCode (section 2.2.34)
  • Latitude (section 2.2.27)
  • Longitude (section 2.2.30)
  • Accuracy (section 2.2.1)
  • Altitude (section 2.2.4)
  • AltitudeAccuracy (section 2.2.5)
  • LocationUri (section 2.2.29)

3.2.5.2.3 Sync

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

• Attachments (section 2.2.8)
  • Attachment (section 2.2.7)
    • DisplayName (section 2.2.22.2)
    • ClientId (section 2.2.14)
    • FileReference (section 2.2.24.1)
    • Method (section 2.2.31.2)
    • EstimatedDataSize (section 2.2.23.1)
    • ContentId (section 2.2.16.2)
    • ContentLocation (section 2.2.17.2)
    • IsInline (section 2.2.26.2)
    • email2:UmAttDuration ([MS-ASEMAIL] section 2.2.81)
    • email2:UmAttOrder ([MS-ASEMAIL] section 2.2.82)

• Body (section 2.2.9)
  • Type (section 2.2.41.1)
  • EstimatedDataSize (section 2.2.23.2)
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 4.12. 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.
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.

<table>
<thead>
<tr>
<th>File name</th>
<th>Defining specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email2.xsd</td>
<td>[MS-ASEMAIL] section 6.2</td>
</tr>
<tr>
<td>ItemOperations.xsd</td>
<td>[MS-ASCMD] section 6.22</td>
</tr>
</tbody>
</table>

```xml
<?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:complexType>
                        <xs:restriction base="xs:unsignedByte">
                            <xs:minInclusive value="1"/>
                            <xs:maxInclusive value="4"/>
                        </xs:restriction>
                    </xs:complexType>
                </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:schema>
```
<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 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:choice maxOccurs="unbounded">
      <xs:element name="Attachment">
        <xs:complexType>
          <xs:all>
            <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
            <xs:element ref="FileReference"/>
            <xs:element name="ClientId" type="xs:string" minOccurs="0"/>
            <xs:element name="Method" type="xs:unsignedByte" minOccurs="0"/>
            <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:element minOccurs="0" name="Add">
        <xs:complexType>
          <xs:all minOccurs="1">
            <xs:element ref="FileReference"/>
            <xs:element name="ClientId" type="xs:string" minOccurs="0"/>
            <xs:element name="Method" type="xs:unsignedByte" minOccurs="0"/>
            <xs:element ref="ContentType"/>
            <xs:element name="Content" type="xs:string" minOccurs="0"/>
            <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
            <xs:element name="ContentId" type="xs:string" minOccurs="0"/>
            <xs:element name="ContentLocation" type="xs:string" minOccurs="0"/>
          </xs:all>
        </xs:complexType>
      </xs:element>
      <xs:element minOccurs="0" name="Delete">
        <xs:complexType>
          <xs:all minOccurs="1">
            <xs:element ref="FileReference"/>
            <xs:element name="ClientId" type="xs:string" minOccurs="0"/>
            <xs:element name="Method" type="xs:unsignedByte" minOccurs="0"/>
            <xs:element ref="ContentType"/>
            <xs:element name="Content" type="xs:string" minOccurs="0"/>
            <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
            <xs:element name="ContentId" type="xs:string" minOccurs="0"/>
            <xs:element name="ContentLocation" type="xs:string" minOccurs="0"/>
          </xs:all>
        </xs:complexType>
      </xs:element>
    </xs:choice>
  </xs:complexType>
</xs:element>
<xs:all>
  <xs:complexType>
    <xs:element name="NativeBodyType" type="xs:unsignedByte" minOccurs="0"/>
    <xs:element name="ContentType" type="xs:string" minOccurs="0"/>
    <xs:element name="InstanceId" type="xs:string"/>
    <xs:element name="Location">
      <xs:complexType>
        <xs:all>
          <xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
          <xs:element name="Annotation" type="xs:string" minOccurs="0"/>
          <xs:element name="Street" type="xs:string" minOccurs="0"/>
          <xs:element name="City" type="xs:string" minOccurs="0"/>
          <xs:element name="State" type="xs:string" minOccurs="0"/>
          <xs:element name="Country" type="xs:string" minOccurs="0"/>
          <xs:element name="PostalCode" type="xs:string" minOccurs="0"/>
          <xs:element name="Latitude" type="xs:double" minOccurs="0"/>
          <xs:element name="Longitude" type="xs:double" minOccurs="0"/>
          <xs:element name="Accuracy" type="xs:double" minOccurs="0"/>
          <xs:element name="Altitude" type="xs:double" minOccurs="0"/>
          <xs:element name="AltitudeAccuracy" type="xs:double" minOccurs="0"/>
          <xs:element name="LocationURI" type="xs:string" minOccurs="0"/>
        </xs:all>
      </xs:complexType>
    </xs:element>
  </xs:complexType>
</xs:element>
</xs:complexType>
</xs:element>
<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 updates to those products.

- Microsoft Exchange Server 2007 Service Pack 1 (SP1)
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Exchange Server 2016
- Microsoft Exchange Server 2019
- Windows 8.1 operating system
- Windows 10 operating system
- Windows Server 2016 operating system

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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 this document since the last release. Changes are classified as Major, Minor, or None.

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.
- A document revision that captures changes to protocol functionality.

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 None means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Revision class</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Updated references.</td>
<td>Minor</td>
</tr>
</tbody>
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