

[MS-OXORSS]: RSS Object Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
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04/25/2008	0.2		Revised and updated property names and other technical content.
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1 Introduction

This document specifies the RSS Object protocol, which defines properties of an object that model an item transmitted in a news feed format.

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

Coordinated Universal Time (UTC)
flags
handle
XML

The following terms are defined in [\[MS-OXGLOS\]](#):

atom feed
Attachment object
Folder object
Mail User Agent (MUA)
Message object
named property
property ID
Really Simple Syndication (RSS)
recipient
remote operation (ROP)
restriction
RSS item
RSS object
search criteria
Uniform Resource Locator (URL)

The following terms are specific to this document:

enclosure: An XML element that is in a feed and contains information such as a URL for a file, typically a media file, that is associated with an RSS item or Atom entry, for example, a podcast.

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

1.2 References

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-OXCDATA] Microsoft Corporation, "[Data Structures](#)".

[MS-OXCFOLD] Microsoft Corporation, "[Folder Object Protocol Specification](#)".

[MS-OXCMMSG] Microsoft Corporation, "[Message and Attachment Object Protocol Specification](#)".

[MS-OXCPRPT] Microsoft Corporation, "[Property and Stream Object Protocol Specification](#)".

[MS-OXCSPAM] Microsoft Corporation, "[Spam Confidence Level Protocol Specification](#)".

[MS-OXOMSG] Microsoft Corporation, "[E-Mail Object Protocol Specification](#)".

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](#)".

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

[RFC4287] Nottingham, M., and Sayre, E.R., "The Atom Syndication Format", RFC 4287, December 2005, <http://www.ietf.org/rfc/rfc4287.txt>

[RSS2.0] Winer, D., "RSS 2.0 Specification", Fall 2002, version 2.0.1: July 2003, <http://cyber.law.harvard.edu/rss/rss.html>

1.2.2 Informative References

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OXBBODY] Microsoft Corporation, "[Best Body Retrieval Algorithm](#)".

[MS-OXCROPS] Microsoft Corporation, "[Remote Operations \(ROP\) List and Encoding Protocol Specification](#)".

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

1.3 Overview

The RSS Object protocol allows the representation of entries from **RSS** and **atom feeds**. The RSS Object protocol extends the Message and Attachment Object protocol in that it defines new properties and adds **restrictions** to the properties that are defined in [\[MS-OXCMMSG\]](#).

The properties that are specific to an **RSS object** allow conversion from the **XML** of an RSS item ([\[RSS2.0\]](#)) or Atom entry ([\[RFC4287\]](#)), including metadata about the feed from which the item or entry came, to properties on a **Message object**. In addition to mapping XML entities from the two formats to shared properties, the XML of the entire RSS item or Atom entry is saved on the Message object.

1.4 Relationship to Other Protocols

The RSS object protocol has the same dependencies as the Message and Attachment Object protocol, which it extends. For details about the Message and Attachment Object protocol, see [\[MS-OXCMMSG\]](#).

The RSS object protocol is a peer of the E-Mail Object protocol, and uses a subset of the properties specified in [\[MS-OXOMSG\]](#).

1.5 Prerequisites/Preconditions

The RSS Object protocol has the same prerequisites and preconditions as the Message and Attachment Object protocol, as specified in [\[MS-OXCMMSG\]](#).

1.6 Applicability Statement

None.

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

This protocol provides no extensibility beyond what is already specified in [\[MS-OXCMMSG\]](#).

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The RSS Object protocol uses the protocols specified in [\[MS-OXCPRPT\]](#) and [\[MS-OXCMSG\]](#) as its primary transport mechanism.

2.2 Message Syntax

An RSS object can be created and modified by clients and servers. Except where noted below, this section defines constraints under which both clients and servers operate.

Clients operate on RSS objects by using the Message and Attachment Object protocol, as specified in [\[MS-OXCMSG\]](#). How a server operates on RSS objects is implementation-dependent. The results of any such operation are exposed to clients in a manner that is consistent with the RSS Object protocol.

Unless otherwise specified, an RSS object adheres to all property constraints, as specified in [\[MS-OXPROPS\]](#), and all property constraints, as specified in [\[MS-OXCMSG\]](#). An RSS object can also contain other properties, which are specified in [\[MS-OXPROPS\]](#), but these properties have no impact on the RSS Object protocol.

RSS feeds can be represented by using either the RSS or Atom protocols. Protocol clients **MUST** be capable of parsing Atom version 0.3, Atom version 1.0, RSS version 1.0, and RSS version 2.0, and creating RSS protocol objects based on those protocols.

RSS object properties can be of several different data types. The following data types used by RSS object properties are specified in [\[MS-OXCDATA\]](#) section 2.11.1:

- PtypBinary
- PtypInteger32
- PtypString
- PtypString8
- PtypTime

2.2.1 RSS Item Properties

The following properties that are specific to RSS objects are defined in this specification.

2.2.1.1 PidLidPostRssChannelLink

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssChannelLink** property ([\[MS-OXPROPS\]](#) section 2.198) contains the **URL** of the RSS feed or atom feed from which the XML file came.

2.2.1.2 PidLidPostRssItemLink

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssItemLink** property ([\[MS-OXPROPS\]](#) section 2.201) contains the URL of the item or entry. For an **RSS item**, this property is set to the value of the **link** child element of the **item** element. For an atom entry, the following applies:

- If the **rel** attribute is not present, or if it is present and set to "alternate", then this property is set to the value of the **href** attribute.
- If the **rel** attribute is present and set to anything besides "alternate", then the **PidLidPostRssItemLink** property is not set.

2.2.1.3 PidLidPostRssItemHash

Type: **PtypInteger32** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssItemHash** property ([\[MS-OXPROPS\]](#) section 2.200) contains a hash of the XML from the RSS feed or the atom feed. The hash is computed by using an implementation-dependent algorithm and is used to quickly determine whether two items are different.

2.2.1.4 PidLidPostRssItemGuid

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssItemGuid** property ([\[MS-OXPROPS\]](#) section 2.199) contains a unique identifier for the object.

This property is set as follows:

- For an RSS item, this property is set to the value of the **GUID** element or the **link** element.
- For an atom entry, this property is set to the value of the **id** element. If the **id** element is not present, this property is set to the value of the **href** attribute of the **link** element.

2.2.1.5 PidLidPostRssChannel

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssChannel** property ([\[MS-OXPROPS\]](#) section 2.197) contains the title of the atom feed or the RSS feed. For an atom feed, this property is set to the value of the **title** child element of the **feed** element. For an RSS feed, this property is set to the value of the **title** child element of the **channel** element.

2.2.1.6 PidLidPostRssItemXml

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssItemXml** property ([\[MS-OXPROPS\]](#) section 2.202) contains either the contents of the **item** element and all of its child elements from an RSS feed, or the contents of the **entry** element and all of its child elements from an atom feed.

2.2.1.7 PidLidPostRssSubscription

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidLidPostRssSubscription** property ([\[MS-OXPROPS\]](#) section 2.203) contains the user's preferred name for the subscription.

2.2.1.8 PidTagMessageDeliveryTime

Type: **PtypTime** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagMessageDeliveryTime** property ([\[MS-OXPROPS\]](#) section 2.845) specifies the posting date, in **Coordinated Universal Time (UTC)**, of the item or entry. This property is optional.

This property is set as follows:

- For an RSS item, this property is set to the value of the **date** element or the **pubDate** element. If neither of these elements is present in the RSS item, this property is set to the value of the **lastBuildDate** element.
- For an atom entry, this property is set to the value of the **modified**, **issued**, **updated**, or **published** element. If none of these elements is present under the **entry** element, then the **modified** element or the **updated** element that is under the **feed** element is used.
- This property can be set to the current time if none of the specified elements exist in the RSS item or the atom entry.

2.2.2 Additional Property Constraints

This protocol specifies additional constraints on the following properties beyond what is specified in [\[MS-OXCMSG\]](#), [\[MS-OXOMSG\]](#), and [\[MS-OXCSPAM\]](#).

2.2.2.1 Attachment Objects

2.2.2.1.1 Full Article Attachment Objects

A full article **Attachment object** contains the contents of the linked document. Its **PidTagAttachMethod** property ([\[MS-OXCMSG\]](#) section 2.2.2.9) MUST be set to 0x00000001 (afByValue). The **PidLidPostRssItemLink** property (section [2.2.1.2](#)) MUST be set to the URL from which the document was downloaded.

An RSS object MUST NOT have more than one full article Attachment object.

2.2.2.1.2 Enclosure Attachment Objects

An enclosure Attachment object contains the contents of an **enclosure**. For an atom entry, the enclosure is a file referenced in the **href** attribute of a **link** element that has its **rel** attribute set to "enclosure". For an RSS item, the enclosure is a file referenced in the **enclosure** element.

An enclosure Attachment object MUST have the **PidTagAttachMethod** property ([\[MS-OXCMSG\]](#) section 2.2.2.9) set to 0x00000001 (afByValue). The **PidLidPostRssItemLink** property (section [2.2.1.2](#)) MUST be set to the URL from which the enclosure was downloaded.

2.2.2.1.3 Other Attachment Objects

An RSS object MUST NOT have Attachment objects other than full article Attachment objects and enclosure Attachment objects.

2.2.2.2 PidNameExchangeJunkEmailMoveStamp

Type: **PtypInteger32** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidNameExchangeJunkEmailMoveStamp** property ([\[MS-OXCSPAM\]](#) section 2.2.1.2) MUST be set on all RSS objects.

2.2.2.3 PidTagMessageClass

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagMessageClass** ([\[MS-OXCMSG\]](#) section 2.2.1.3) property specifies the type of the Message object. The value MUST be "IPM.Post.RSS" or begin with "IPM.Post.RSS" in addition to meeting the criteria specified in [\[MS-OXCMSG\]](#).

2.2.2.4 PidTagSenderName

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagSenderName** property ([\[MS-OXOMSG\]](#) section 2.2.1.43) contains origination information about the RSS object.

This property is set as follows:

- For an RSS item, this property is set to the value of the **author**, **publisher**, or **title** element.
- For an atom entry, this property is set to the value of the **name** or **title** element.
- This property is set to an empty string if none of the specified elements exist in the RSS item or the atom entry.

2.2.2.5 PidTagSenderEmailAddress

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagSenderEmailAddress** property ([\[MS-OXOMSG\]](#) section 2.2.1.41) contains the value of the **email** child element of the **author** element of an atom entry. If the **email** element is not present, this property is set to an empty string. This property does not apply to an RSS item.

2.2.2.6 PidTagSentRepresentingName

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagSentRepresentingName** property ([\[MS-OXOMSG\]](#) section 2.2.1.49) contains origination information about the RSS object.

This property is set as follows:

- For an RSS item, this property is set to the value of the **author**, **publisher**, or **title** element.
- For an atom entry, this property is set either to the value of the **title** element or to the value of the **name** child element of the **author** element.
- This property is set to an empty string if none of the specified elements exist in the RSS item or the atom entry.

2.2.2.7 PidTagSentRepresentingEmailAddress

Type: **PtypString** ([\[MS-OXCDATA\]](#) section 2.11.1)

The **PidTagSentRepresentingEmailAddress** property ([\[MS-OXOMSG\]](#) section 2.2.1.47) contains the contents of the **email** child element of the **author** element of an atom entry. If the **email** element is not present, this property is set to an empty string. This property does not apply to an RSS item.

2.2.2.8 Recipients

An RSS object MUST NOT have **recipients**.

3 Protocol Details

General protocol details, as specified in [\[MS-OXPROPS\]](#) and [\[MS-OXCMSG\]](#), apply to RSS objects.

3.1 Common Details

The client and server roles are to create and manipulate RSS objects, and otherwise operate in their respective roles, as specified in [\[MS-OXCMSG\]](#).

3.1.1 Abstract Data Model

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

3.1.1.1 RSS Objects

An RSS object extends the Message object, as specified in [\[MS-OXCMSG\]](#).

3.1.1.2 Folder Objects

RSS objects are created in **Folder objects** that have a container class of "IPF.Note.OutlookHomepage" unless the **Mail User Agent (MUA)** explicitly specifies otherwise.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

3.1.4.1 Creation of an RSS Object

To create an RSS object, the server or client creates a Message object, as specified in [\[MS-OXCMSG\]](#), sets properties in accordance with the requirements specified in [\[MS-OXCPRPT\]](#) section 2, and saves the resulting Message object as specified in [\[MS-OXCMSG\]](#). In particular, the **PidNameExchangeJunkEmailMoveStamp** ([\[MS-OXPROPS\]](#) section 2.453) property MUST be set before the RSS object is saved the first time.

3.1.4.2 Modification of an RSS Object

When modifying an RSS object, the server or client opens a Message object, as specified in [\[MS-OXCMSG\]](#), modifies any properties in accordance with the requirements specified in [\[MS-OXCPRPT\]](#) section 2, and saves the resulting Message object as specified in [\[MS-OXCMSG\]](#).

3.1.4.3 Deletion of an RSS Object

RSS objects have no special semantics in relation to deletion beyond what is specified in [\[MS-OXCFOLD\]](#).

3.1.5 Message Processing Events and Sequencing Rules

None.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

4 Protocol Examples

Joe subscribes to an RSS feed. The client polls the feed and finds a new item. The following is a description of what a client might do to accomplish Joe's intentions and describes the responses a server might return. For information about **remote operations (ROPs)**, see [\[MS-OXCPRPT\]](#) and [\[MS-OXCMSG\]](#).

Before manipulating RSS objects, the client needs to ask the server to perform a mapping from **named properties** to **property IDs**, by using **RopGetPropertyIDsFromNames** ([\[MS-OXCROPS\]](#) section 2.2.8.1).

Property	Property set GUID	NameID
PidLidPostRssChannel ([MS-OXPROPS] section 2.197)	{00020041-0000-0000-C000-000000000046}	0x8904
PidLidPostRssChannelLink ([MS-OXPROPS] section 2.198)	{00020041-0000-0000-C000-000000000046}	0x8900
PidLidPostRssItemGuid ([MS-OXPROPS] section 2.199)	{00020041-0000-0000-C000-000000000046}	0x8903
PidLidPostRssItemHash ([MS-OXPROPS] section 2.200)	{00020041-0000-0000-C000-000000000046}	0x8902
PidLidPostRssItemLink ([MS-OXPROPS] section 2.201)	{00020041-0000-0000-C000-000000000046}	0x8901
PidLidPostRssItemXml ([MS-OXPROPS] section 2.202)	{00020041-0000-0000-C000-000000000046}	0x8905
PidLidPostRssSubscription ([MS-OXPROPS] section 2.203)	{00020041-0000-0000-C000-000000000046}	0x8906
PidLidSideEffects ([MS-OXPROPS] section 2.293)	{00062008-0000-0000-C000-000000000000}	0x81f8

Property	Property set GUID	NameID
	46}	
PidNameExchangeJunkEmailMoveStamp ([MS-OXPROPS] section 2.453)	{00020329-0000-0000-C000-000000000046}	HTTP://schemas.microsoft.com/exchange/junkemail/movestamp

The server might respond with the following identifiers, which will be used in the example that follows. (The actual identifiers are at the discretion of the server.)

Property	Property ID
PidLidPostRssChannel	0x8318
PidLidPostRssChannelLink	0x8314
PidLidPostRssItemGuid	0x8317
PidLidPostRssItemHash	0x8316
PidLidPostRssItemLink	0x8315
PidLidPostRssItemXml	0x8319
PidLidPostRssSubscription	0x831a
PidLidSideEffects	0x81f8
PidNameExchangeJunkEmailMoveStamp	0x8415

To create an RSS object, the client uses **RopCreateMessage** ([\[MS-OXCROPS\]](#) section 2.2.6.2). The server returns a success code and a **handle** to the object.

After processing the contents of the RSS item, the client uses **RopSetProperties** ([\[MS-OXCROPS\]](#) section 2.2.8.6) to transmit its data to the server.

Property	Property ID	Data Type	Value
PidLidPostRssChannel	0x8318	0x001f (PtypString)	Help and How-To for Contoso
PidLidPostRssChannelLink	0x8314	0x001f (PtypString)	HTTP://www.contoso.com
PidLidPostRssItemGuid	0x8317	0x001f (PtypString)	HTTP://www.contoso.com
PidLidPostRssItemHash	0x8316	0x0003 (PtypInteger32)	0xCD0E93CF
PidLidPostRssItemLink	0x8315	0x001f (PtypString)	HTTP://www.contoso.com
PidLidPostRssItemXml	0x8319	0x001f	See Note 1.

Property	Property ID	Data Type	Value
		(PtypString)	
PidLidPostRssSubscription	0x831a	0x001f (PtypString)	Help and How-To for Contoso
PidLidSideEffects	0x81f8	0x0003 (PtypInteger32)	0x00000100
PidTagHtml ([MS-OXPROPS] section 2.789)	0x1013	0x0102 (PtypBinary)	See Note 2.
PidTagClientSubmitTime ([MS-OXPROPS] section 2.693)	0x0039	0x0040 (PtypTime)	High: 0x01C87A36 Low: 0xD74C8CC0 (2008/02/28 18:22:13.900)
PidTagConversationTopic ([MS-OXPROPS] section 2.712)	0x0070	0x001f (PtypString)	Learn to narrow your search criteria for better searches in Contoso
PidTagInternetCodepage ([MS-OXPROPS] section 2.803)	0x3fde	0x0003 (PtypInteger32)	0x0000FDE9
PidTagMessageClass ([MS-OXPROPS] section 2.843)	0x001a	0x001f (PtypString)	"IPM.Post.RSS"
PidTagMessageFlags ([MS-OXPROPS] section 2.847)	0x0e07	0x0003 (PtypInteger32)	Flags: 0x00000000 <none>
PidTagNormalizedSubject ([MS-OXPROPS] section 2.864)	0x0e1d	0x001f (PtypString)	Learn to narrow your search criteria for better searches in Contoso
PidTagSenderName ([MS-OXPROPS] section 2.1057)	0x0c1a	0x001f (PtypString)	Help and How-To for Contoso
PidTagSentRepresentingName ([MS-OXPROPS] section 2.1069)	0x0042	0x001f (PtypString)	Help and How-To for Contoso
PidTagSubjectPrefix ([MS-OXPROPS] section 2.1087)	0x003d	0x001f (PtypString)	(null)
PidNameExchangeJunkEmailMoveStamp	0x8415	0x0003 (PtypInteger32)	0x802454D1

When the client has made all its changes to the item, it uses **RopSaveChangesMessage** ([MS-OXCROPS] section 2.2.6.3) to commit the properties to the server, and then **RopRelease** ([MS-OXCROPS] section 2.2.15.3) to release the RSS object. The values of some properties will change during the execution of **RopSaveChangesMessage**, but the properties specified in this document will not change.

Note 1: **PidLidPostRssItemXml** contains the following text:

```
<?xml version="1.0"?>
<item>
<title>Learn to narrow your search criteria for better searches in Contoso</title>
<description>Instant Search can help you find information in a flash.</description>
```

```
<link>http://www.contoso.com</link>
</item>
```

Note 2: PidTagHtml contains the following text, encoded into binary as described in [\[MS-OXBBODY\]](#):

```
<html>
  <body>
    <table>
      <tr>
        <td>Instant Search can help you find information in a flash.</td>
      </tr>
    </table>
    <p><BR/><A HREF="http://www.contoso.com">View article...</A></p>
  </body>
</html>
```

5 Security

5.1 Security Considerations for Implementers

There are no special security considerations specific to this protocol. General security considerations that pertain to the underlying transport apply as specified in [\[MS-OXCMSG\]](#) and [\[MS-OXCPRPT\]](#).

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

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

- Microsoft® Exchange Server 2003
- Microsoft® Exchange Server 2007
- Microsoft® Exchange Server 2010
- Microsoft® Office Outlook® 2003
- Microsoft® Office Outlook® 2007
- Microsoft® Outlook® 2010

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

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

7 Change Tracking

This section identifies changes that were made to the [MS-OXORSS] protocol document between the August 2011 and October 2011 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

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

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

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

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

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

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

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

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

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

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

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

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

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

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
2.2.1.2 PidLidPostRssItemLink	Revised statement to refer to the link element as the child of the item element.	N	Content updated.
2.2.1.4 PidLidPostRssItemGuid	Replaced table with details to clarify how the property is set for an RSS item and an atom entry.	N	Content updated.
2.2.1.8 PidTagMessageDeliveryTime	Replaced table with details to clarify how the property is set for an RSS item and an atom entry.	N	Content updated.
2.2.2.4 PidTagSenderName	Replaced table with details to clarify how the property is set for an RSS item and an atom entry.	N	Content updated.
2.2.2.5 PidTagSenderEmailAddress	Specified that the property is set to an empty string if the email element is not present.	N	Content updated.
2.2.2.6 PidTagSentRepresentingName	Replaced table with details to clarify how the property is set for an RSS item and an atom entry.	N	Content updated.
2.2.2.7 PidTagSentRepresentingEmailAddress	Specified that the property is set to an empty string if the email element is not present.	N	Content updated.

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