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## Revision Summary

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1 Introduction

The Document Object Protocol enables representation of an ordinary file, such as a document generated by a word-processing application, in a mail folder for later retrieval. This protocol extends the Message and Attachment Object Protocol, which is described in [MS-OXCMMSG].

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.

**Document object**: A **Message object** that represents a single file, such as a document generated by a word-processing application. The Message object contains the file as an **Attachment object** and includes additional properties to describe the file.

**handle**: Any token that can be used to identify and access an object such as a device, file, or a window.

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

**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.

**public folder**: A Folder object that is stored in a location that is publicly available.

**remote operation (ROP)**: An operation that is invoked against a server. Each ROP represents an action, such as delete, send, or query. A ROP is contained in a ROP buffer for transmission over the wire.

**site mailbox**: A repository comprised of a mailbox and a web-based collaboration environment that is presented to users as a mailbox in an email client. A site mailbox uses team membership to determine which users have access to the repository.

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

**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-OXCDATA] Microsoft Corporation, "Data Structures".

[MS-OXCFOLD] Microsoft Corporation, "Folder Object Protocol".


[MS-OXCPRT] Microsoft Corporation, "Property and Stream Object Protocol".


1.2.2 Informative References


1.3 Overview

The Document Object Protocol allows a user to store an ordinary file, such as a document generated by a word-processing application, in a mail folder. For example, a user might store a few files in mail folders so that the files can be accessed on any computer that provides access to the user’s e-mail. To represent the stored file, this protocol defines a Document object. The stored file is embedded within the Document object; the embedded file is referred to as an attachment.

The Document Object Protocol extends the Message and Attachment Object Protocol, described in [MS-OXCMMSG], by defining new properties for a Message object and by adding constraints to existing properties of Message object.

1.4 Relationship to Other Protocols

The Document Object Protocol relies on the same protocols as the Message and Attachment Object Protocol, which the Document Object Protocol extends. For more information about the Message and Attachment Object Protocol, see [MS-OXCMMSG].

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

1.5 Prerequisites/Preconditions

The Document Object Protocol has the same prerequisites and preconditions as the Message and Attachment Object Protocol, as specified in [MS-OXCMMSG].

1.6 Applicability Statement

The client can use this protocol to store ordinary files in a user’s mail folders and to expose the files that are stored in the mail folders.
1.7 Versioning and Capability Negotiation
None.

1.8 Vendor-Extensible Fields
This protocol provides no extensibility beyond what is already specified in [MS-OXCMSG].

1.9 Standards Assignments
None.
2 Messages

2.1 Transport

The Document Object Protocol uses the same underlying transport as that used by the Message and Attachment Object Protocol, as specified in [MS-OXCMSG].

2.2 Message Syntax

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

Clients operate on a Document object by using the Message and Attachment Object Protocol, as specified in [MS-OXCMSG], and by using the Property and Stream Object Protocol, as specified in [MS-OXCPRPT]. The manner in which a server operates on a Document object is implementation-dependent, but the results of any such operations MUST be exposed to clients in a manner that is consistent with the Document Object Protocol.

Unless otherwise stated in sections 2.2.1 and 2.2.2, a Document object MUST adhere to all property constraints specified in both [MS-OXPROPS] and [MS-OXCMSG].

2.2.1 Document-Specific Properties

A Document object encapsulates the behavior of the attached file. As such, properties on the file can be promoted as properties on the Message object. Document object-specific properties that can be set on the Message object are specified in section 2.2.1.1 through section 2.2.1.34.

2.2.1.1 PidNameTitle Property

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

The PidNameTitle property ([MS-OXPROPS] section 2.481) specifies the title of the file attached to the Document object.

2.2.1.2 PidNameSubject Property

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

The PidNameSubject property ([MS-OXPROPS] section 2.478) specifies the subject of the file attached to the Document object.

2.2.1.3 PidNameAuthor Property

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

The PidNameAuthor property ([MS-OXPROPS] section 2.374) specifies the original author of the file attached to the Document object.

2.2.1.4 PidNameKeywords Property

Type: PtypMultipleString ([MS-OXCDATA] section 2.11.1)

The PidNameKeywords property ([MS-OXCMSG] section 2.2.1.17) specifies the categories of the file attached to the Document object.
2.2.1.5 PidNameComments Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameComments property ([MS-OXPROPS] section 2.410) specifies the comments of the file attached to the Document object.

2.2.1.6 PidNameTemplate Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameTemplate property ([MS-OXPROPS] section 2.479) specifies the template of the file attached to the Document object.

2.2.1.7 PidNameLastAuthor Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameLastAuthor property ([MS-OXPROPS] section 2.452) specifies the most recent author of the file attached to the Document object.

2.2.1.8 PidNameRevisionNumber Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameRevisionNumber property ([MS-OXPROPS] section 2.473) specifies the revision number of the file attached to the Document object.

2.2.1.9 PidNameApplicationName Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameApplicationName property ([MS-OXPROPS] section 2.367) specifies the application that can be used to open the file attached to the Document object.

2.2.1.10 PidNameEditTime Property
Type: PtypString ([MS-OXCDATA] section 2.11.1)

The PidNameEditTime property ([MS-OXPROPS] section 2.423) specifies the time that the file was last edited.

2.2.1.11 PidNameLastPrinted Property
Type: PtypTime ([MS-OXCDATA] section 2.11.1)

The PidNameLastPrinted property ([MS-OXPROPS] section 2.453) specifies the time that the file was last printed.

2.2.1.12 PidNameCreateDateTimeReadOnly Property
Type: PtypTime ([MS-OXCDATA] section 2.11.1)

The PidNameCreateDateTimeReadOnly property ([MS-OXPROPS] section 2.415) specifies the time that the file was created.
2.2.1.13 **PidNameLastSaveDateTime Property**

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

The **PidNameLastSaveDateTime** property ([MS-OXPROPS] section 2.454) specifies the time that the file was last saved.

2.2.1.14 **PidNamePageCount Property**

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

The **PidNamePageCount** property ([MS-OXPROPS] section 2.468) specifies the number of pages in the file attached to the **Document object**.

2.2.1.15 **PidNameWordCount Property**

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

The **PidNameWordCount** property ([MS-OXPROPS] section 2.482) specifies the number of words in the file attached to the **Document object**.

2.2.1.16 **PidNameCharacterCount Property**

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

The **PidNameCharacterCount** property ([MS-OXPROPS] section 2.409) specifies the number of characters in the file attached to the **Document object**.

2.2.1.17 **PidNameSecurity Property**

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

The **PidNameSecurity** property ([MS-OXPROPS] section 2.476) specifies the security level of the file attached to the **Document object**.

2.2.1.18 **PidNameCategory Property**

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

The **PidNameCategory** property ([MS-OXPROPS] section 2.408) specifies the category of the file attached to the **Document object**.

2.2.1.19 **PidNamePresentationFormat Property**

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

The **PidNamePresentationFormat** property ([MS-OXPROPS] section 2.471) specifies the presentation format of the file attached to the **Document object**.

2.2.1.20 **PidNameManager Property**

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

The **PidNameManager** property ([MS-OXPROPS] section 2.458) specifies the manager of the file attached to the **Document object**.
2.2.1.21 **PidNameCompany Property**

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

The **PidNameCompany** property ([MS-OXPROPS] section 2.411) specifies the company for which the file was created.

2.2.1.22 **PidNameByteCount Property**

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

The **PidNameByteCount** property ([MS-OXPROPS] section 2.379) specifies the size, in bytes, of the file attached to the **Document object**.

2.2.1.23 **PidNameLineCount Property**

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

The **PidNameLineCount** property ([MS-OXPROPS] section 2.455) specifies the number of lines in the file attached to the **Document object**.

2.2.1.24 **PidNameParagraphCount Property**

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

The **PidNameParagraphCount** property ([MS-OXPROPS] section 2.469) specifies the number of paragraphs in the file attached to the **Document object**.

2.2.1.25 **PidNameSlideCount Property**

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

The **PidNameSlideCount** property ([MS-OXPROPS] section 2.477) specifies the number of slides in the file attached to the **Document object**.

2.2.1.26 **PidNameNoteCount Property**

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

The **PidNameNoteCount** property ([MS-OXPROPS] section 2.462) specifies the number of notes in the file attached to the **Document object**.

2.2.1.27 **PidNameHiddenCount Property**

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

The **PidNameHiddenCount** property ([MS-OXPROPS] section 2.443) specifies the hidden value of the file attached to the **Document object**.

2.2.1.28 **PidNameMultimediaClipCount Property**

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

The **PidNameMultimediaClipCount** property ([MS-OXPROPS] section 2.461) specifies the number of multimedia clips in the file attached to the **Document object**.
2.2.1.29  **PidNameDocumentParts Property**  
Type: PtypMultipleString ([MS-OXCDATA] section 2.11.1)  
The **PidNameDocumentParts** property ([MS-OXPROPS] section 2.422) specifies the title of each part of the file attached to the **Document object**.

2.2.1.30  **PidNameHeadingPairs Property**  
Type: PtypBinary ([MS-OXCDATA] section 2.11.1)  
The **PidNameHeadingPairs** property ([MS-OXPROPS] section 2.442) specifies which group of headings is indented in the file attached to the **Document object**.

2.2.1.31  **PidNameLinksDirty Property**  
Type: PtypBoolean ([MS-OXCDATA] section 2.11.1)  
The **PidNameLinksDirty** property ([MS-OXPROPS] section 2.456) indicates whether the links are up-to-date in the file attached to the **Document object**. The value TRUE indicates that the links are up-to-date; FALSE indicates otherwise.

2.2.1.32  **PidNameScale Property**  
Type: PtypBoolean ([MS-OXCDATA] section 2.11.1)  
The **PidNameScale** property ([MS-OXPROPS] section 2.475) indicates whether the image attached to the **Document object** is to be scaled or is to be cropped. The value TRUE indicates thumbnail scaling; FALSE indicates cropping.

2.2.1.33  **PidNameThumbnail Property**  
Type: PtypBinary ([MS-OXCDATA] section 2.11.1)  
The **PidNameThumbnail** property ([MS-OXPROPS] section 2.480) specifies the data representing the thumbnail image of the file attached to the **Document object**.

2.2.1.34  **PidLidPendingStateForSiteMailboxDocument Property**  
Type: PtypInteger32 ([MS-OXCDATA] section 2.11.1)  
The **PidLidPendingStateForSiteMailboxDocument** property ([MS-OXPROPS] section 2.201) specifies the synchronization state of the **Document object** that is in the Document Libraries folder of the site mailbox.<1>  
The valid values for this property are shown in the following table.

<table>
<thead>
<tr>
<th>Value</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The document has been uploaded to a shared location.</td>
</tr>
<tr>
<td>1</td>
<td>The document has been added to the Document Libraries folder and is waiting to be uploaded to a shared location.</td>
</tr>
</tbody>
</table>
2.2.2  Additional Property Constraints

Additional property constraints beyond what is specified in [MS-OXCMSG] are specified in section 2.2.2.1 through section 2.2.2.3.

2.2.2.1  PidTagMessageClass Property

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

The PidTagMessageClass property ([MS-OXCMSG] section 2.2.1.3) specifies the type of the Message object. For a message to be treated as a Document object by a client, the value of this property MUST be "IPM.document.<FileType>", where the "<FileType>" substring indicates the type of the attached file. The value of the substring that follows "IPM.document." is implementation-dependent.

2.2.2.2  PidTagDisplayName Property

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

The PidTagDisplayName property ([MS-OXCOLD] section 2.2.2.2.2.5) specifies the name of the attachment. A Document object SHOULD have this property set.

2.2.2.3  Attachment to the Message Object

A Document object MUST have at least one attachment and SHOULD NOT have more than one. For details about how attachments are stored within a message, see [MS-OXCMSG].
3 Protocol Details

3.1 Client Details

The client creates and manipulates a Document object and otherwise operates within the client role 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.

This protocol uses the abstract data model that is specified in [MS-OXCMSG] section 3.1.1 with the following adaptations:

- The Document object is an extension of the Message object.
- A Document object is created in the folder chosen by the user.
- A Document object is placed in the Document Libraries folder of the site mailbox to have the attached file of the Document object uploaded to a shared location.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

3.1.4.1 Creating a Document Object

The client creates a Document object as a Message object with an attachment when the user drags a file from any file folder into either a mail folder of the user's mailbox or the Document Libraries folder of the site mailbox. The file is attached to the Document object. For details about the attachment to a Document object, see section 2.2.2.3. For details about the remote operations (ROPs) involved in creating a Message object and an Attachment object, see [MS-OXCMSG].

The client SHOULD set the PidTagMessageClass ([MS-OXCMSG] section 2.2.1.3) and PidTagDisplayName ([MS-OXCOLD] section 2.2.2.2.5) properties as specified in section 2.2.2.1 and section 2.2.2.2. If the Document object is created in the the Document Libraries folder of the site mailbox, the client MUST set the PidLidPendingStateForSiteMailboxDocument property (section 2.2.1.34) to 1.

3.1.4.2 Opening a Document Object

When a user opens a message, the client opens the Message object as specified in [MS-OXCMSG] section 3.1.4.1. The client determines the message type by examining the PidTagMessageClass property ([MS-OXCMSG] section 2.2.1.3), as specified in section 2.2.2.1.
If the value of **PidTagMessageClass** does not begin with "IPM.document.", the message is not a **Document object**, and the client handles the message in a way that is appropriate for that particular type of Message object. If the value of the **PidTagMessageClass** property does begin with "IPM.document.", the message is a Document object, and the client retrieves the attachment as specified in [MS-OXCMMSG] section 3.1.4.11. If there are zero attachments, the client displays an error. If there is more than one attachment, the client can either display an error or pick one of the attachments. For details about attachments to a Document object, see section 2.2.2.3. When a Document object is opened, the client can open the message’s underlying attachment directly, thereby behaving in the most optimal fashion from a user's perspective.

### 3.1.4.3 Deleting a Document Object

When a user deletes a **Document object** from a mail folder, the client deletes the Document object in the same way that it deletes any **Message object**, as 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.

### 3.2 Server Details

The server processes a client’s requests regarding a **Document object** and otherwise operates within the server role as specified in [MS-OXCMMSG].

#### 3.2.1 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.

This protocol uses the abstract data model that is specified in [MS-OXCMMSG] section 3.2.1 with the following adaptations:

- The **Document object** is an extension of the **Message object**.
  
- A Document object is created in the folder chosen by the user.
  
- A Document object is placed in the Document Libraries folder of the **site mailbox** to have the attached file of the Document object uploaded to a shared location.

#### 3.2.2 Timers

None.
3.2.3 Initialization

None.

3.2.4 Higher-Layer Triggered Events

When a Document object is created in the Document Libraries folder of the site mailbox, as specified in section 3.1.4.1, the server uploads the object's attached file to a shared location and sets properties as follows. The attached file is no longer stored on the server after the server uploads the attached file to the shared location.

- **PidTagAttachMethod** property ([MS-OXCMSG] section 2.2.2.9): Set to **afByReference** (0x00000002).
- **PidTagAttachLongPathname** property ([MS-OXCMSG] section 2.2.2.13): Set to the **URL** of the shared location to which the document is uploaded.
- **PidLidPendingStateForSiteMailboxDocument** property (section 2.2.1.34): Set to 0 (zero).

3.2.5 Message Processing Events and Sequencing Rules

The server responds to client requests as specified in [MS-OXCMSG] section 3.2.5.

3.2.6 Timer Events

None.

3.2.7 Other Local Events

None.
4 Protocol Examples

4.1 PidTagMessageClass Property Values for Different File Types

The following table shows how the PidTagMessageClass property might be set for different file types.

<table>
<thead>
<tr>
<th>File extension</th>
<th>PidTagMessageClass property value</th>
</tr>
</thead>
<tbody>
<tr>
<td>.doc</td>
<td>IPM.document.Word.document.8</td>
</tr>
<tr>
<td>.docx</td>
<td>IPM.document.Word.document.12</td>
</tr>
<tr>
<td>.xls</td>
<td>IPM.document.Excel.Sheet.8</td>
</tr>
<tr>
<td>.ppt</td>
<td>IPM.document.PowerPoint.Show.8</td>
</tr>
<tr>
<td>.pptx</td>
<td>IPM.document.PowerPoint.Show.12</td>
</tr>
<tr>
<td>.txt</td>
<td>IPM.document.txtfile</td>
</tr>
</tbody>
</table>

4.2 Creating a Document Object

Joe drags a file named testDocObj.txt from his desktop into one of his mail folders. Descriptions of what a client might do to accomplish Joe's intentions and the responses that a server might return are provided in section 4.2.1 through section 4.2.4.

4.2.1 Creating the Document Object

To create a Document object, the client uses the RopCreateMessage ROP ([MS-OXCROPS] section 2.2.6.2).

The server returns a success code and a handle to a Message object.

4.2.2 Creating the Attachment

The client creates the Attachment object by using the RopCreateAttachment ROP ([MS-OXCROPS] section 2.2.6.13). Then, the client writes out the contents of the file into the attachment by using the RopOpenStream ROP ([MS-OXCROPS] section 2.2.9.1) and the RopSetStreamSize ROP ([MS-OXCROPS] section 2.2.9.7), followed by the RopWriteStream ROP ([MS-OXCROPS] section 2.2.9.3).

The client then sets various properties on the attachment by using the RopSetProperties ROP ([MS-OXCROPS] section 2.2.8.6). Some of the properties that would be set on the attachment are shown in the following table. The data types are described in [MS-OXCDATA] section 2.11.1.

<table>
<thead>
<tr>
<th>Property</th>
<th>Property ID</th>
<th>Data type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PidTagAttachLongFilename</td>
<td>0x3707</td>
<td>0x001F (PtypString)</td>
<td>&quot;testDocObj.txt&quot;</td>
</tr>
<tr>
<td>PidTagAttachExtension</td>
<td>0x3703</td>
<td>0x001F</td>
<td>&quot;.txt&quot;</td>
</tr>
</tbody>
</table>
Now the client saves the attachment by using the **RopSaveChangesAttachment** ROP ([MS-OXCROPS] section 2.2.6.15).

### 4.2.3 Setting Properties on the Document Object

The protocol client transmits the data to the protocol server by using the **RopSetProperties** ROP ([MS-OXCROPS] section 2.2.8.6). Some of the relevant properties that need to be set for a **Document object** are shown in the following table. The data types are described in [MS-OXCDATA] section 2.11.1.

<table>
<thead>
<tr>
<th>Property</th>
<th>Property ID</th>
<th>Data type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PidTagDisplayName</td>
<td>0x3001</td>
<td>0x001F (PtypString)</td>
<td>&quot;testDocObj.txt&quot;</td>
</tr>
<tr>
<td>PidTagMessageClass</td>
<td>0x001A</td>
<td>0x001F</td>
<td>&quot;IPM.document.txtfile&quot;</td>
</tr>
</tbody>
</table>

### 4.2.4 Saving the Document Object

The protocol client commits the properties on the protocol server by using the **RopSaveChangesMessage** ROP ([MS-OXCROPS] section 2.2.6.3) and then releases the object by using the **RopRelease** ROP ([MS-OXCROPS] section 2.2.15.3). The values of some properties will change during the execution of the **RopSaveChangesMessage** ROP, but none of the properties specified in this protocol will change.
5 Security

5.1 Security Considerations for Implementers

The file that the Document object stores as an attachment can be any file on the hard drive. When a user opens a Document object, one behavior is to open the attached file directly. This file could do harmful things when opened. While this is less of an issue for a user’s personal mail folders, it becomes much more of an issue for public folders. It is up to the client to choose what kind of behavior to follow when a user opens a Document object.

5.2 Index of Security Parameters

<table>
<thead>
<tr>
<th>Security parameter</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>PidNameSecurity property</td>
<td>Section 2.2.1.17</td>
</tr>
</tbody>
</table>
Appendix A: 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 2003
- Microsoft Exchange Server 2007
- Microsoft Exchange Server 2010
- Microsoft Exchange Server 2013
- Microsoft Exchange Server 2016
- Microsoft Office Outlook 2003
- Microsoft Office Outlook 2007
- Microsoft Outlook 2010
- Microsoft Outlook 2013
- Microsoft Outlook 2016
- Microsoft Exchange Server 2019
- Microsoft Outlook 2019
- Microsoft Outlook 2021
- Microsoft Outlook 2024 Preview

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 2.2.1.34: Exchange 2003, Exchange 2007, Exchange 2010, Office Outlook 2003, Office Outlook 2007, and Microsoft Outlook 2010 do not support the PidLidPendingStateForSiteMailboxDocument property (section 2.2.1.34) and the site mailbox.

<2> Section 3.1.4.1: Office Outlook 2003, Office Outlook 2007, and Outlook 2010 do not support the site mailbox.

<3> Section 3.2.4: Exchange 2003, Exchange 2007, and Exchange 2010 do not support the site mailbox and the PidLidPendingStateForSiteMailboxDocument property (section 2.2.1.34).
7 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>6 Appendix A: Product Behavior</td>
<td>Updated list of supported products.</td>
<td>Major</td>
</tr>
</tbody>
</table>
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PidNameParagraphCount document-specific property
12
PidNamePresentationFormat document-specific
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PidNameRevisionNumber document-specific property
10
PidNameScale document-specific property 13
PidNameSecurity document-specific property 11
PidNameSlideCount document-specific property 12
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