

[MS-OXSHARE]: Sharing Message Object Protocol Specification

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Revision Summary

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04/25/2008	0.2		Revised and updated property names and other technical content.
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1 Introduction

The Sharing Message Object Protocol specifies the format of **messages** that enable a user to communicate status about the sharing of **folders**.

This document specifies the following:

- The message format used to inform users that they have been granted access to another user's folder and provide the information necessary to locate that folder.
- The message format used to request access to a user's folder.
- The message format used to respond to requests for access to a folder.

1.1 Glossary

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

Address Book object
big-endian
folder
handle
message
Message object
named property
property (1)
property ID
recipient (2)
remote operation (ROP)
restriction
special folder
Uniform Resource Locator (URL)

The following terms are specific to this document:

sharing invitation: A type of **Sharing Message object** that informs a user that the user has been granted access to another user's **folder** and provides the information necessary to locate that **folder**.

Sharing Message object: A **Message object** that is used to inform a user that the user has been granted access to another user's **folder**, request access to a **recipient's folder**, or respond to a request for access to a **folder**.

sharing provider: A software agent that is responsible for properly generating and processing a predefined **Sharing Message object** format.

sharing request: A type of **Sharing Message object** that is used to request access to a user's **folder**.

sharing response: A type of **Sharing Message object** that is used to respond to a **sharing request**.

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](#)", April 2008.

[MS-OXCFOLD] Microsoft Corporation, "[Folder Object Protocol Specification](#)", April 2008.

[MS-OXCMSG] Microsoft Corporation, "[Message and Attachment Object Protocol Specification](#)", April 2008.

[MS-OXCPRPT] Microsoft Corporation, "[Property and Stream Object Protocol Specification](#)", April 2008.

[MS-OXOABK] Microsoft Corporation, "[Address Book Object Protocol Specification](#)", April 2008.

[MS-OXODLGT] Microsoft Corporation, "[Delegate Access Configuration Protocol Specification](#)", April 2008.

[MS-OXOMSG] Microsoft Corporation, "[E-Mail Object Protocol Specification](#)", April 2008.

[MS-OXOSFLD] Microsoft Corporation, "[Special Folders Protocol Specification](#)", April 2008.

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](#)", April 2008.

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

1.2.2 Informative References

[MS-OXGLOS] Microsoft Corporation, "[Exchange Server Protocols Master Glossary](#)", April 2008.

1.3 Overview

The Sharing Message Object Protocol allows for the representation of a communication related to sharing a folder. It extends the Message and Attachment Object Protocol in that it defines new **properties** and adds **restrictions** to the properties that are specified in [\[MS-OXCMSG\]](#).

The Sharing Message Object Protocol specifies the format and semantics of the **Sharing Message object**. The properties that are specific to a Sharing Message object facilitate communication about granting access to a folder, requesting access to a folder, or responding to a request for access to a folder

1.4 Relationship to Other Protocols

This specification extends the Message and Attachment Object Protocol specified in [\[MS-OXCMSG\]](#) and relies on an understanding of how to work with properties, folders, and **special folders** which are specified in [\[MS-OXCPRPT\]](#), [\[MS-OXCFOLD\]](#), and [\[MS-OXOSFLD\]](#). It also uses the E-mail Object Protocol specified in [\[MS-OXOMSG\]](#) for message submission and delivery.

1.5 Prerequisites/Preconditions

The Sharing Message Object Protocol has the same prerequisites and preconditions as specified in [\[MS-OXCMSG\]](#) and [\[MS-OXOMSG\]](#).

1.6 Applicability Statement

The Sharing Message Object Protocol can be used to notify another user that access has been granted to a folder. This protocol can also be used to request access to a folder and to respond to such requests.

The Sharing Message Object Protocol cannot be used to convey information about any type of object other than folders.

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

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

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

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

2.2 Message Syntax

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

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

Unless otherwise specified, a Sharing Message object adheres to all property constraints specified in [\[MS-OXPROPS\]](#) and all property constraints specified in [\[MS-OXCMSG\]](#). A Sharing Message object can also contain other properties specified in [\[MS-OXPROPS\]](#), but these properties have no effect on the Sharing Message Object Protocol.

Where a string value is specified as a hexadecimal string representation of a binary value, the string value is a sequence of hexadecimal digits that reflect the byte sequence of the binary value. For example, the string "00000000DCA740C8" is the hexadecimal string representation of the following byte sequence:

```
0000 00 00 00 00 dc a7 40 c8
```

Where a string value is specified as a hexadecimal string representation of an integer value, the string value is a sequence of hexadecimal digits that reflect the integer value in **big-endian** format, without an "0x" prefix, and without leading "0" characters. For example, the hexadecimal string representation of the integer 0x0000010B would be "10B".

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

- PtypBinary
- PtypInteger32
- PtypString
- PtypTime

2.2.1 Common Message Object Properties

The following properties are general properties used by Sharing Message objects. The constraints on these properties are specified in [\[MS-OXPROPS\]](#).

2.2.1.1 PidTagNormalizedSubject

This property is specified in [\[MS-OXPROPS\]](#) section 2.2.1.

2.2.1.2 PidTagSubjectPrefix

This property is specified in [\[MS-OXPROPS\]](#) section 2.1155.

2.2.2 Common Sharing Message Object Properties

The following properties are specific to Sharing Message objects.

2.2.2.1 PidLidSharingCapabilities

Type: PtypInteger32.

MUST be one of the following values:

Value	Scenario
0x00040290	This Sharing Message object relates to a special folder.
0x000402B0	This Sharing Message object does not relate to a special folder.

2.2.2.2 PidNameXSharingCapabilities

Type: **PtypString**.

The hexadecimal string representation of [PidLidSharingCapabilities](#).

2.2.2.3 PidLidSharingConfigurationUrl

Type: **PtypString**.

MUST be a zero-length string.

2.2.2.4 PidNameXSharingConfigUrl

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingConfigurationUrl](#).

2.2.2.5 PidLidSharingFlavor

Type: **PtypInteger32**.

MUST be one of the following values:

Value	Type of Sharing Message object
0x00020310	A sharing invitation for a special folder.
0x00000310	A sharing invitation for a folder that is not a special folder.
0x00020500	A sharing request .
0x00020710	Both a sharing invitation for a special folder and a sharing request for the recipient's equivalent special folder.
0x00025100	A sharing response denying a request.

Value	Type of Sharing Message object
0x00023310	A sharing response accepting a request (also a type of sharing invitation).

2.2.2.6 PidNameXSharingFlavor

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of [PidLidSharingFlavor](#).

2.2.2.7 PidLidSharingInitiatorEntryId

Type: **PtypBinary**.

MUST be set to the value of [PidTagEntryId](#) for the **Address Book object** of the currently logged on user (see [\[MS-OXOABK\]](#)).

2.2.2.8 PidLidSharingInitiatorName

Type: **PtypString**.

MUST be set to the value of [PidTagDisplayName](#) from the Address Book object identified by [PidLidSharingInitiatorEntryId](#) and SHOULD be ignored. <1>

2.2.2.9 PidLidSharingInitiatorSntp

Type: **PtypString**.

MUST be set to the value of [PidTagSntpAddress](#) from the Address Book object identified by [PidLidSharingInitiatorEntryId](#) and SHOULD be ignored. <2>

2.2.2.10 PidLidSharingLocalType

Type: **PtypString**.

MUST be set to the value of [PidTagContainerClass](#) of the folder being shared and MUST be one of the following values:

- "IPF.Appointment"
- "IPF.Contact"
- "IPF.Task"
- "IPF.StickyNote"
- "IPF.Journal"

2.2.2.11 PidNameXSharingLocalType

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingLocalType](#).

2.2.2.12 PidLidSharingProviderGuid

Type: **PtypBinary**.

MUST be set to %xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46.

2.2.2.13 PidNameXSharingProviderGuid

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of [PidLidSharingProviderGuid](#). That is, "AEF0060000000000C0000000000046".

2.2.2.14 PidLidSharingProviderName

Type: **PtypString**.

A user-displayable name of the **sharing provider** identified by [PidLidSharingProviderGuid](#). SHOULD be ignored.<3>

2.2.2.15 PidNameXSharingProviderName

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingProviderName](#) and SHOULD be ignored.<4>

2.2.2.16 PidLidSharingProviderUrl

Type: **PtypString**.

A **Uniform Resource Locator (URL)** related to the sharing provider identified by [PidLidSharingProviderGuid](#). Generally used to provide more information about the sharing provider. SHOULD be ignored.<5>

2.2.2.17 PidNameXSharingProviderUrl

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingProviderUrl](#) and SHOULD be ignored.<6>

2.2.3 Sharing Request Properties

The following property constraints are specific to sharing requests to which the user has responded, which are Sharing Message objects with a [PidLidSharingFlavor](#) value of 0x00020500 or 0x00020710. For all other types of Sharing Message objects, these properties MUST NOT be set.

2.2.3.1 PidLidSharingResponseTime

Type: **PtypTime**.

The time at which the recipient of the sharing request sent a sharing response.

2.2.3.2 PidLidSharingResponseType

Type: **PtypInteger32**.

The type of response with which the recipient of the sharing request responded. MUST be one of the following values:

Value	Meaning
0x00000001	Accepted
0x00000002	Denied

2.2.4 Sharing Invitation Properties

The following property constraints are specific to sharing invitations, which are Sharing Message objects with a [PidLidSharingFlavor](#) value of 0x00020310, 0x00000310, 0x0020710, or 0x0023310. For all other types of Sharing Message objects, these properties SHOULD NOT be set and MUST be ignored.<7>

2.2.4.1 PidLidSharingRemoteName

Type: **PtypString**.

MUST be set to the value of [PidTagDisplayName](#) on the folder being shared.

2.2.4.2 PidNameXSharingRemoteName

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingRemoteName](#).

2.2.4.3 PidLidSharingRemoteStoreUid

Type: **PtypString**.

MUST be set to a hexadecimal string representation of the value of [PidTagStoreEntryId](#) on the folder being shared.

2.2.4.4 PidNameXSharingRemoteStoreUid

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingRemoteStoreUid](#).

2.2.4.5 PidLidSharingRemoteType

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingLocalType](#) and SHOULD be ignored.<8>

2.2.4.6 PidNameXSharingRemoteType

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingRemoteType](#) and SHOULD be ignored.<9>

2.2.4.7 PidLidSharingRemoteUid

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of [PidTagEntryId](#) on the folder being shared.

2.2.4.8 PidNameXSharingRemoteUid

Type: **PtypString**.

MUST be set to the same value as [PidLidSharingRemoteUid](#).

2.2.5 Ignored Properties

The value of the following properties SHOULD NOT be set and MUST be ignored: [<10>](#)

- [PidLidSharingAnonymity](#)
- [PidLidSharingBindingEntryId](#)
- [PidLidSharingBrowseUrl](#)
- [PidNameXSharingBrowseUrl](#)
- [PidLidSharingDataRangeEnd](#)
- [PidLidSharingDataRangeStart](#)
- [PidLidSharingDetail](#)
- [PidLidSharingExtensionXml](#)
- [PidNameXSharingExendedCaps](#)
- [PidLidSharingFilter](#)
- [PidLidSharingFlags](#)
- [PidLidSharingFolderEntryId](#)
- [PidLidSharingIndexEntryId](#)
- [PidLidSharingInstanceGuid](#)
- [PidNameXSharingInstanceGuid](#)
- [PidLidSharingLastAutoSyncTime](#)
- [PidLidSharingLastSyncTime](#)
- [PidLidSharingLocalComment](#)
- [PidLidSharingLocalLastModificationTime](#)
- [PidLidSharingLocalName](#)
- [PidLidSharingLocalPath](#)

- [PidLidSharingLocalStoreUid](#)
- [PidLidSharingLocalUid](#)
- [PidLidSharingOriginalMessageEntryId](#)
- [PidLidSharingParentBindingEntryId](#)
- [PidLidSharingParticipants](#)
- [PidLidSharingPermissions](#)
- [PidLidSharingProviderExtension](#)
- [PidLidSharingRangeEnd](#)
- [PidLidSharingRangeStart](#)
- [PidLidSharingReciprocation](#)
- [PidLidSharingRemoteByteSize](#)
- [PidLidSharingRemoteComment](#)
- [PidLidSharingRemoteCrc](#)
- [PidLidSharingRemoteLastModificationTime](#)
- [PidLidSharingRemoteMessageCount](#)
- [PidLidSharingRemotePass](#)
- [PidLidSharingRemotePath](#)
- [PidNameXSharingRemotePath](#)
- [PidLidSharingRemoteUser](#)
- [PidLidSharingRemoteVersion](#)
- [PidLidSharingRoamLog](#)
- [PidLidSharingStart](#)
- [PidLidSharingStatus](#)
- [PidLidSharingStop](#)
- [PidLidSharingSyncFlags](#)
- [PidLidSharingSyncInterval](#)
- [PidLidSharingTimeToLive](#)
- [PidLidSharingTimeToLiveAuto](#)
- [PidLidSharingWorkingHoursDays](#)
- [PidLidSharingWorkingHoursEnd](#)

- [PidLidSharingWorkingHoursStart](#)
- [PidLidSharingWorkingHoursTimeZone](#)

2.2.6 Additional Property Constraints

This document specifies additional constraints on the following properties beyond what is specified in [\[MS-OXCMSG\]](#).

2.2.6.1 PidNameContentClass

Type: **PtypString**.

MUST be set to "Sharing".

2.2.6.2 PidTagMessageClass

Type: **PtypString**.

MUST be set to "IPM.Sharing" or a value that begins with "IPM.Sharing.".

3 Protocol Details

There is no server role beyond those specified in [\[MS-OXCMSG\]](#) and [\[MS-OXOMSG\]](#).

3.1 Client Details

The client role is to create and operate on Sharing Message objects and otherwise operate in the client role, as specified in [\[MS-OXCMSG\]](#) and [\[MS-OXOMSG\]](#).<11>

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 specification does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

A Sharing Message object extends the **Message object** and has an abstract data model that does not differ from that specified in [\[MS-OXCMSG\]](#).

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

3.1.4.1 Creating a Sharing Invitation

The following table lists the properties and the corresponding values that MUST be set, as specified in section [2.2](#), to create a sharing invitation.

Property	Valid Values
PidTagMessageClass	"IPM.Sharing" or a value that begins with "IPM.Sharing."
PidNameContentClass	"Sharing"
PidLidSharingProviderGuid	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
PidNameXSharingProviderGuid	"AEF0060000000000C000000000000046"
PidLidSharingProviderName	A user-displayable name of the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderName	The same value as PidLidSharingProviderName .
PidLidSharingProviderUrl	A URL related to the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderUrl	The same value as PidLidSharingProviderUrl .
PidLidSharingConfigurationUrl	A zero-length string.

Property	Valid Values
PidNameXSharingConfigUrl	The same value as PidLidSharingConfigurationUrl .
PidLidSharingFlavor	If the folder being shared is a special folder: 0x00020310. If the folder being shared is not a special folder: 0x00000310.
PidNameXSharingFlavor	If the folder being shared is a special folder: "20310". If the folder being shared is not a special folder: "310".
PidLidSharingCapabilities	If the folder being shared is a special folder: 0x00040290. If the folder being shared is not a special folder: 0x000402B0.
PidNameXSharingCapabilities	If the folder being shared is a special folder: "40290". If the folder being shared is not a special folder: "402B0".
PidLidSharingInitiatorEntryId	The value of PidTagEntryId for the Address Book object of the currently logged in user.
PidLidSharingInitiatorName	The value of PidTagDisplayName from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingInitiatorSmtP	The value of PidTagSmtPAddress from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingRemoteName	The value of PidTagDisplayName on the folder being shared.
PidNameXSharingRemoteName	The same value as PidLidSharingRemoteName .
PidLidSharingRemoteUid	A hexadecimal string representation of the value of PidTagEntryId on the folder being shared.
PidNameXSharingRemoteUid	The value of PidLidSharingRemoteUid .
PidLidSharingRemoteStoreUid	A hexadecimal string representation of the value of PidTagStoreEntryId on the folder being shared.
PidNameXSharingRemoteStoreUid	The value of PidLidSharingRemoteStoreUid .
PidLidSharingLocalType	A value from table 1 according to the type of folder being shared.
PidNameXSharingLocalType	The same value as PidLidSharingLocalType .
PidLidSharingRemoteType	The same value as PidLidSharingLocalType .
PidNameXSharingRemoteType	The same value as PidLidSharingRemoteType .

Type of folder	Valid Value
Calendar	"IPF.Appointment"
Contacts	"IPF.Contact"
Tasks	"IPF.Task"
Notes	"IPF.StickyNote"

Type of folder	Valid Value
Journal	"IPF.Journal"

3.1.4.2 Creating a Sharing Request

The following table lists the properties and the corresponding values that MUST be set, as specified in section 2.2, to create a sharing request.

Property	Valid Values
PidTagMessageClass	"IPM.Sharing" or a value that begins with "IPM.Sharing."
PidNameContentClass	"Sharing"
PidLidSharingProviderGuid	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
PidNameXSharingProviderGuid	"AEF0060000000000C000000000000046"
PidLidSharingProviderName	A user-displayable name of the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderName	The same value as PidLidSharingProviderName .
PidLidSharingProviderUrl	A URL related to the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderUrl	The same value as PidLidSharingProviderUrl .
PidLidSharingConfigurationUrl	A zero-length string.
PidNameXSharingConfigUrl	The same value as PidLidSharingConfigurationUrl .
PidLidSharingFlavor	0x00020500
PidNameXSharingFlavor	"20500"
PidLidSharingCapabilities	0x00040290
PidNameXSharingCapabilities	"40290"
PidLidSharingInitiatorEntryId	The value of PidTagEntryId for the Address Book object of the currently logged on user.
PidLidSharingInitiatorName	The value of PidTagDisplayName from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingInitiatorSmtpt	The value of PidTagSmtptAddress from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingLocalType	A value from table 2 according to the special folder being requested.
PidNameXSharingLocalType	The same value as PidLidSharingLocalType .

The following table lists the valid values for the `PidLidSharingLocalType` property.

Table 2: Valid Values for `PidLidSharingLocalType` on a Sharing Request

Special Folder (See [MS-OXOSFLD])	Valid value
Calendar	"IPF.Appointment"
Contacts	"IPF.Contact"
Tasks	"IPF.Task"
Notes	"IPF.StickyNote"
Journal	"IPF.Journal"

3.1.4.3 Creating a Sharing Response – Accept

The client can determine the special folder being requested by the sharing request according to the following table:

Value of PidLidSharingLocalType on the Sharing Request	Special Folder being Requested (See [MS-OXOSFLD])
"IPF.appointment"	Calendar
"IPF.contact"	Contacts
"IPF.Task"	Tasks
"IPF.StickyNote"	Notes
"IPF.journal"	Journal

The following table lists the properties and the corresponding values that MUST be set, as specified in section 2.2, to create a sharing response that indicates that a sharing request has been accepted and provides the information necessary to locate the special folder being requested.

Property	Valid Values
PidTagMessageClass	"IPM.Sharing" or a value that begins with "IPM.Sharing."
PidNameContentClass	"Sharing"
PidLidSharingProviderGuid	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
PidNameXSharingProviderGuid	"AEF0060000000000C000000000000046"
PidLidSharingProviderName	A user-displayable name of the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderName	The same value as PidLidSharingProviderName .
PidLidSharingProviderUrl	A URL related to the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderUrl	The same value as PidLidSharingProviderUrl .
PidLidSharingConfigurationUrl	A zero-length string.
PidNameXSharingConfigUrl	The same value as PidLidSharingConfigurationUrl .

Property	Valid Values
PidLidSharingFlavor	0x00023310
PidNameXSharingFlavor	"23310"
PidLidSharingCapabilities	0x00040290
PidNameXSharingCapabilities	"40290"
PidLidSharingInitiatorEntryId	The value of PidTagEntryId for the Address Book object of the currently logged on user.
PidLidSharingInitiatorName	The value of PidTagDisplayName from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingInitiatorSmtpt	The value of PidTagSmtptAddress from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingRemoteName	The value of PidTagDisplayName on the special folder being requested.
PidNameXSharingRemoteName	The same value as PidLidSharingRemoteName .
PidLidSharingRemoteUid	The hexadecimal string representation of the value of PidTagEntryId on the special folder being requested.
PidNameXSharingRemoteUid	The value of PidLidSharingRemoteUid .
PidLidSharingRemoteStoreUid	The hexadecimal string representation of the value of PidTagStoreEntryId on the special folder being requested.
PidNameXSharingRemoteStoreUid	The value of PidLidSharingRemoteStoreUid .
PidLidSharingLocalType	The value of PidLidSharingLocalType on the sharing request to which this message is responding.
PidNameXSharingLocalType	The same value as PidLidSharingLocalType .
PidLidSharingRemoteType	The same value as PidLidSharingLocalType .
PidNameXSharingRemoteType	The same value as PidLidSharingRemoteType .

The following table lists the properties and the corresponding values that MUST be set, as specified in section [2.2](#), on the sharing request to which this sharing response is responding.

Property	Valid Values
PidLidSharingResponseType	0x00000001
PidLidSharingResponseTime	The time at which the sharing response was sent.

3.1.4.4 Creating a Sharing Response – Deny

The following table lists the properties and the corresponding values that MUST be set, as specified in section [2.2](#), to create a sharing response that indicates a sharing request has been denied.

Property	Valid Values
PidTagMessageClass	"IPM.Sharing" or a value that begins with "IPM.Sharing."
PidNameContentClass	"Sharing"
PidLidSharingProviderGuid	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
PidNameXSharingProviderGuid	"AEF0060000000000C000000000000046"
PidLidSharingProviderName	A user-displayable name of the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderName	The same value as PidLidSharingProviderName .
PidLidSharingProviderUrl	A URL related to the sharing provider identified by PidLidSharingProviderGuid .
PidNameXSharingProviderUrl	The same value as PidLidSharingProviderUrl .
PidLidSharingConfigurationUrl	A zero-length string.
PidNameXSharingConfigUrl	The same value as PidLidSharingConfigurationUrl .
PidLidSharingFlavor	0x00025100
PidNameXSharingFlavor	"25100"
PidLidSharingCapabilities	0x00040290
PidNameXSharingCapabilities	"40290"
PidLidSharingInitiatorEntryId	The value of PidTagEntryId for the Address Book object of the currently logged on user.
PidLidSharingInitiatorName	The value of PidTagDisplayName from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingInitiatorSmtP	The value of PidTagSmtPAddress from the Address Book object identified by PidLidSharingInitiatorEntryId .
PidLidSharingLocalType	The value of PidLidSharingLocalType on the sharing request to which this message is responding.
PidNameXSharingLocalType	The same value as PidLidSharingLocalType .

The following table lists the properties and the corresponding values that MUST be set, as specified in section [2.2](#), on the sharing request to which this sharing response is responding.

Property	Valid Values
PidLidSharingResponseType	0x00000002
PidLidSharingResponseTime	The time at which the sharing response was sent.

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

Kendall Keil wants to see Ryan Gregg's calendar special folder. Kendall sends a sharing request to Ryan and Ryan responds.

The following is a description of what a client might do to accomplish this scenario and the responses a server might return. See [\[MS-OXCPRPT\]](#) and [\[MS-OXCMSG\]](#) for details about **remote operations (ROPs)**.

Before manipulating Sharing Message objects, the client has to ask the server to perform a mapping from **named properties** to **property IDs**, using [RopGetPropertyIdsFromNames](#).

Property	Property set GUID	NameID
PidNameContentClass	{00020386-0000-0000-c000-000000000046}	Content-class
PidLidSharingProviderGuid	{00062040-0000-0000-C000-000000000046}	0x00008A01
PidNameXSharingProviderGuid	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-GUID
PidLidSharingProviderName	{00062040-0000-0000-C000-000000000046}	0x00008A02
PidNameXSharingProviderName	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-Name
PidLidSharingProviderUrl	{00062040-0000-0000-C000-000000000046}	0x00008A03
PidNameXSharingProviderUrl	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-URL
PidLidSharingConfigurationUrl	{00062040-0000-0000-C000-000000000046}	0x00008A24
PidNameXSharingConfigUrl	{00020386-0000-0000-C000-000000000046}	X-Sharing-Config-URL
PidLidSharingFlavor	{00062040-0000-0000-C000-000000000046}	0x00008A18
PidNameXSharingFlavor	{00020386-0000-0000-C000-000000000046}	X-Sharing-Flavor
PidLidSharingCapabilities	{00062040-0000-0000-C000-000000000046}	0x00008A17
PidNameXSharingCapabilities	{00020386-0000-0000-C000-000000000046}	X-Sharing-Capabilities
PidLidSharingLocalType	{00062040-0000-0000-C000-000000000046}	0x00008A14
PidNameXSharingLocalType	{00020386-0000-0000-C000-000000000046}	X-Sharing-Local-Type

Property	Property set GUID	NameID
PidLidSharingInitiatorEntryId	{00062040-0000-0000-C000-000000000046}	0x00008A09
PidLidSharingInitiatorName	{00062040-0000-0000-C000-000000000046}	0x00008A07
PidLidSharingInitiatorSmtp	{00062040-0000-0000-C000-000000000046}	0x00008A08
PidLidSharingRemoteName	{00062040-0000-0000-C000-000000000046}	0x00008A05
PidNameXSharingRemoteName	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Name
PidLidSharingRemoteType	{00062040-0000-0000-C000-000000000046}	0x00008A1D
PidNameXSharingRemoteType	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Type
PidLidSharingRemoteUid	{00062040-0000-0000-C000-000000000046}	0x00008A06
PidNameXSharingRemoteUid	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Uid
PidLidSharingRemoteStoreUid	{00062040-0000-0000-C000-000000000046}	0x00008A48
PidNameXSharingRemoteStoreUid	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Store-Uid
PidLidSharingResponseType	{00062040-0000-0000-C000-000000000046}	0x00008A27
PidLidSharingResponseTime	{00062040-0000-0000-C000-000000000046}	0x00008A28

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

Property	Property ID
PidNameContentClass	0x806D
PidLidSharingProviderGuid	0x8243
PidNameXSharingProviderGuid	0x836F
PidLidSharingProviderName	0x8244
PidNameXSharingProviderName	0x8370
PidLidSharingProviderUrl	0x8245
PidNameXSharingProviderUrl	0x8371

Property	Property ID
PidLidSharingConfigurationUrl	0x83D0
PidNameXSharingConfigUrl	0x8377
PidLidSharingFlavor	0x823D
PidNameXSharingFlavor	0x836D
PidLidSharingCapabilities	0x823C
PidNameXSharingCapabilities	0x836C
PidLidSharingLocalType	0x824F
PidNameXSharingLocalType	0x8379
PidLidSharingInitiatorEntryId	0x8249
PidLidSharingInitiatorName	0x8029
PidLidSharingInitiatorSmtP	0x8248
PidLidSharingRemoteName	0x8026
PidNameXSharingRemoteName	0x8373
PidLidSharingRemoteType	0x8247
PidNameXSharingRemoteType	0x8376
PidLidSharingRemoteUid	0x8246
PidNameXSharingRemoteUid	0x8374
PidLidSharingRemoteStoreUid	0x83E1
PidNameXSharingRemoteStoreUid	0x8375
PidLidSharingResponseType	0x83E4
PidLidSharingResponseTime	0x83E3

4.1 Sending a Sharing Request

Kendall's client creates a Message object, using [RopCreateMessage](#). The server returns a success code and a **handle** to a Message object.

The client then uses [RopSetProperties](#) to set the following properties and corresponding values on the Message object to create a sharing request, as follows:

Property	Property ID	Data Type	Value
PidTagMessageClass	0x001A	PtypString	"IPM.Sharing"
PidNameContentClass	0x806D	PtypString	"Sharing"

Property	Property ID	Data Type	Value
PidTagNormalizedSubject	0x0E1D	PtypString	"Sharing request: calendar"
PidTagSubjectPrefix	0x003D	PtypString	"" (a zero-length string)
PidLidSharingProviderGuid	0x8243	PtypBinary	(See Figure 1)
PidNameXSharingProviderGuid	0x836F	PtypString	"AEF0060000000000C00000000000046"
PidLidSharingProviderName	0x8244	PtypString	"Microsoft Exchange"
PidNameXSharingProviderName	0x8370	PtypString	"Microsoft Exchange"
PidLidSharingProviderUrl	0x8245	PtypString	"HTTP://www.microsoft.com/exchange"
PidNameXSharingProviderUrl	0x8371	PtypString	"HTTP://www.microsoft.com/exchange"
PidLidSharingConfigurationUrl	0x83D0	PtypString	"" (a zero-length string)
PidNameXSharingConfigUrl	0x8377	PtypString	"" (a zero-length string)
PidLidSharingFlavor	0x823D	PtypInteger32	0x00020500
PidNameXSharingFlavor	0x836D	PtypString	"20500"
PidLidSharingCapabilities	0x823C	PtypInteger32	0x00040290
PidNameXSharingCapabilities	0x836C	PtypString	"40290"
PidLidSharingLocalType	0x824F	PtypString	"IPF.Appointment"
PidNameXSharingLocalType	0x8379	PtypString	"IPF.Appointment"
PidLidSharingInitiatorEntryId	0x8249	PtypBinary	(See Figure 2)
PidLidSharingInitiatorName	0x8029	PtypString	user12
PidLidSharingInitiatorSmtpt	0x8248	PtypString	user12@fabrikam.com

Figure 1 shows the value of [PidLidSharingProviderGuid](#).

16 Bytes

```
0000 ae f0 06 00 00 00 00 00 c0 00 00 00 00 00 46.....F
```

Figure 1: Value of [PidLidSharingProviderGuid](#)

Figure 2 shows the value of [PidLidSharingInitiatorEntryId](#).

125 Bytes

```
0000 00 00 00 00 dc a7 40 c8 c0 42 10 1a b4 b9 08 00.....@..B.....
0010 2b 2f e1 82 01 00 00 00 00 00 00 2f 6f 3d 46+/. ...../o=F
0020 69 72 73 74 20 4f 72 67 61 6e 69 7a 61 74 69 6f irst Organizatio
0030 6e 2f 6f 75 3d 45 78 63 68 61 6e 67 65 20 41 64 n/ou=Exchange Ad
```

```

0040 6d 69 6e 69 73 74 72 61 74 69 76 65 20 47 72 6f ministrative Gro
0050 75 70 20 28 46 59 44 49 42 4f 48 46 32 33 53 50 up (FYDIBOHF23SP
0060 44 4c 54 29 2f 63 6e 3d 52 65 63 69 70 69 65 6e DLT)/cn=Recipien
0070 74 73 2f 63 6e 3d 75 73 65 72 31 32 00          ts/cn=user12.

```

Figure 2: Value of [PidLidSharingInitiatorEntryId](#)

After addressing the message as specified in [\[MS-OXOMSG\]](#), the client uses [RopSubmitMessage](#) to send the message to Ryan and then uses [RopRelease](#) to release the Message object.

4.2 Denying a Sharing Request

Ryan wants to send a sharing response denying the sharing request described in section [4.1](#). The client uses [RopCreateMessage](#) to create a new Message object. The server returns a success code and a handle to a Message object.

The client then uses [RopSetProperties](#) to set the sharing properties for a sharing response that indicates that the request was denied, as follows:

Property	Property ID	Property Type	Value
PidTagMessageClass	0x001A	PtypString	"IPM.Sharing"
PidNameContentClass	0x806d	PtypString	"Sharing"
PidTagNormalizedSubject	0x0E1D	PtypString	"Denied: sharing request: calendar"
PidTagSubjectPrefix	0x003D	PtypString	"" (a zero-length string)
PidLidSharingProviderGuid	0x8243	PtypBinary	(See Figure 3)
PidNameXSharingProviderGuid	0x836F	PtypString	"AEF0060000000000C00000000000046"
PidLidSharingProviderName	0x8244	PtypString	"Microsoft Exchange"
PidNameXSharingProviderName	0x8370	PtypString	"Microsoft Exchange"
PidLidSharingProviderUrl	0x8245	PtypString	"HTTP://www.microsoft.com/exchange"
PidNameXSharingProviderUrl	0x8371	PtypString	"HTTP://www.microsoft.com/exchange"
PidLidSharingConfigurationUrl	0x83D0	PtypString	"" (a zero-length string)
PidNameXSharingConfigUrl	0x8377	PtypString	"" (a zero-length string)
PidLidSharingFlavor	0x823D	PtypInteger32	0x00025100
PidNameXSharingFlavor	0x836D	PtypString	"25100"
PidLidSharingCapabilities	0x823C	PtypInteger32	0x00040290
PidNameXSharingCapabilities	0x836C	PtypString	"40290"
PidLidSharingLocalType	0x824F	PtypString	"IPF.Appointment"
PidNameXSharingLocalType	0x8379	PtypString	"IPF.Appointment"

Property	Property ID	Property Type	Value
PidLidSharingInitiatorEntryId	0x8249	PtypBinary	(See Figure 4)
PidLidSharingInitiatorName	0x8029	PtypString	user12
PidLidSharingInitiatorSmtpt	0x8248	PtypString	user12@fabrikam.com

Figure 3 shows the value of [PidLidSharingProviderGuid](#).

16 Bytes

```
0000ae f0 06 00 00 00 00 00 c0 00 00 00 00 00 00 46.....F
```

Figure 3: Value of [PidLidSharingProviderGuid](#)

Figure 4 shows the value of [PidLidSharingInitiatorEntryId](#).

125 Bytes

```
0000 00 00 00 00 00 dc a7 40 c8 c0 42 10 1a b4 b9 08 00.....@..B.....
0010 2b 2f e1 82 01 00 00 00 00 00 00 00 2f 6f 3d 46+/....../o=F
0020 69 72 73 74 20 4f 72 67 61 6e 69 7a 61 74 69 6first Organizatio
0030 6e 2f 6f 75 3d 45 78 63 68 61 6e 67 65 20 41 64n/ou=Exchange Ad
0040 6d 69 6e 69 73 74 72 61 74 69 76 65 20 47 72 6fministrative Gro
0050 75 70 20 28 46 59 44 49 42 4f 48 46 32 33 53 50up (FYDIBOHF23SP
0060 44 4c 54 29 2f 63 6e 3d 52 65 63 69 70 69 65 6eDLT)/cn=Recipien
0070 74 73 2f 63 6e 3d 75 73 65 72 31 32 00          ts/cn=user12.
```

Figure 4: Value of [PidLidSharingInitiatorEntryId](#)

After addressing the message as specified in [\[MS-OXOMSG\]](#), the client uses [RopSubmitMessage](#) to send the message to Kendall and then uses [RopRelease](#) to release the Message object.

Then, the client uses [RopOpenMessage](#) to open the sharing request. The server returns a success code and a handle to the Message object.

The client uses [RopSetProperties](#) to set the sharing properties on the sharing request to indicate that the client has sent a sharing response denying the request and the time at which it was sent, as follows:

Property	Property ID	Property type	Data	Value
PidLidSharingResponseType	0x83E4	PtypInteger32	02 00 00 00	0x00000002
PidLidSharingResponseTime	0x83E3	PtypTime	00 9A C2 CF E3 7F C8 01	2008/03/06 23:43:00.000

The client uses [RopSaveChangesMessage](#) to save the changes and uses [RopRelease](#) to release the Message object.

4.3 Accepting a Sharing Request

Ryan wants to send a sharing response accepting the sharing request described in section 4.1. The client uses [RopCreateMessage](#) to create a new Message object. The server returns a success code and a handle to a Message object.

The client uses [RopSetProperties](#) to set the sharing properties for a sharing response that indicates that the request was accepted and provides the information required to locate the requested folder, as follows:

Property	Property ID	Property type	Value
PidTagMessageClass	0x001A	Pty pString	"IPM.Sharing"
PidNameContentClass	0x006D	Pty pString	"Sharing"
PidTagNormalizedSubject	0x001D	Pty pString	"Allowed: sharing request: calendar"
PidTagSubjectPrefix	0x003D	Pty pString	"" (a zero-length string)
PidLidSharingProviderGuid	0x008243	Pty pBinary	(See Figure 5)
PidNameXSharingProviderGuid	0x0083	Pty pString	"AEF0060000000000C00000000000046"

Property	Property ID	Property type	Value
d	6F		
PidLidSharingProviderName	0x8244	Pty pString	"Microsoft Exchange"
PidNameSharingProviderName	0x8370	Pty pString	"Microsoft Exchange"
PidLidSharingProviderUrl	0x8245	Pty pString	"HTTP://www.microsoft.com/exchange"
PidNameSharingProviderUrl	0x8371	Pty pString	"HTTP://www.microsoft.com/exchange"
PidLidSharingConfigurationUrl	0x83D0	Pty pString	"" (a zero-length string)
PidNameSharingConfigurationUrl	0x8377	Pty pString	"" (a zero-length string)
PidLidSharingFavor	0x823	Pty pInteger	0x00023310

Property	Property ID	Property type	Value
	D	32	
PidNameXSharingFlavor	0x836D	Pty pString	"23310"
PidLidSharingCapabilities	0x823C	Pty pInteger32	0x00040290
PidNameXSharingCapabilities	0x836C	Pty pString	"40290"
PidLidSharingLocalType	0x824F	Pty pString	"IPF.Appointment"
PidNameXSharingLocalType	0x8379	Pty pString	"IPF.Appointment"
PidLidSharingInitiatorEntryId	0x8249	Pty pBinary	(See Figure 6)
PidLidSharingInitiatorName	0x8229	Pty pString	user10

Property	Property ID	Property type	Value
PidLidSharingInitiatorSmt	0x8248	Pty pString	user10@fabrikam.com
PidLidSharingRemoteName	0x8026	Pty pString	"Calendar"
PidNameSharingRemoteName	0x8373	Pty pString	"Calendar"
PidLidSharingRemoteType	0x8247	Pty pString	"IPF.Appointment"
PidNameSharingRemoteType	0x8376	Pty pString	"IPF.Appointment"
PidLidSharingRemoteUid	0x8246	Pty pString	"00000000B0FCA4F63C21A642BD4B8F1BDBA04BC60100612A7BAB49F64E4B9C52DBFB5A53AA1C000000F04EEF0000"
PidNameSharingRemoteUid	0x8374	Pty pString	"00000000B0FCA4F63C21A642BD4B8F1BDBA04BC60100612A7BAB49F64E4B9C52DBFB5A53AA1C000000F04EEF0000"
PidLidS	0	Pty	"0000000038A1BB1005E5101AA1BB08002B2A56C20000454D534D44422E444C4C00"

Property	Property ID	Property type	Value
haringRemoteStoreUID	x83E1	pS string	0000000000001B55FA20AA6611CD9BC800AA002FC45A0C0000003336353952392D413131002F6F3D4669727374204F7267616E697A6174696F6E2F6F753D45786368616E67652041646D696E6973747261746976652047726F7570202846594449424F484632335350444C54292F636E3D526563697069656E74732F636E3D75736572313000"
PidNameXSharingRemoteStoreUID	0x83E75	Pty pS string	"0000000038A1BB1005E5101AA1BB08002B2A56C20000454D534D44422E444C4C000000000000001B55FA20AA6611CD9BC800AA002FC45A0C0000003336353952392D413131002F6F3D4669727374204F7267616E697A6174696F6E2F6F753D45786368616E67652041646D696E6973747261746976652047726F7570202846594449424F484632335350444C54292F636E3D526563697069656E74732F636E3D75736572313000"

Figure 5 shows the value of [PidLidSharingProviderGuid](#).

16 Bytes

```
0000ae f0 06 00 00 00 00 00 c0 00 00 00 00 00 00 46.....F
```

Figure 5: Value of [PidLidSharingProviderGuid](#)

Figure 6 shows the value of [PidLidSharingInitiatorEntryId](#).

125 Bytes

```
000000 00 00 00 dc a7 40 c8 c0 42 10 1a b4 b9 08 00.....@..B.....
00102b 2f e1 82 01 00 00 00 00 00 00 2f 6f 3d 46+/.o=F
002069 72 73 74 20 4f 72 67 61 6e 69 7a 61 74 69 6first Organizatio
00306e 2f 6f 75 3d 45 78 63 68 61 6e 67 65 20 41 64n/ou=Exchange Ad
00406d 69 6e 69 73 74 72 61 74 69 76 65 20 47 72 6ministrative Gro
005075 70 20 28 46 59 44 49 42 4f 48 46 32 33 53 50up (FYDIBOHF23SP
006044 4c 54 29 2f 63 6e 3d 52 65 63 69 70 69 65 6eDLT)/cn=Recipien
007074 73 2f 63 6e 3d 75 73 65 72 31 30 00          ts/cn=user10.
```

Figure 6: Value of [PidLidSharingInitiatorEntryId](#)

After properly addressing the message as specified in [\[MS-OXOMSG\]](#), the client uses [RopSubmitMessage](#) to send the message to Kendall and then uses [RopRelease](#) to release the Message object.

The client then grants Kendall permission to the folder as specified in [\[MS-OXODLGT\]](#).

Then the client uses [RopOpenMessage](#) to open the sharing request. The server returns a success code and a handle to the Message object.

The client uses [RopSetProperties](#) to set the sharing properties on the sharing request to indicate that the client has sent a sharing response accepting the request and the time at which it was sent, as follows:

Property	Property ID	Property type	Data	Value
PidLidSharingResponseType	0x83E4	PtypInteger32	01 00 00 00	0x00000001
PidLidSharingResponseTime	0x83E3	PtypTime	00 9A C2 CF E3 7F C8 01	2008/03/06 23:43:00.000

The client uses [RopSaveChangesMessage](#) to save the changes and uses [RopRelease](#) to release the Message object.

5 Security

5.1 Security Considerations for Implementers

There are no special security considerations specific to the Sharing Message Object Protocol. General security considerations pertaining to the underlying transport apply, as specified in [\[MS-OXOMSG\]](#) and [\[MS-OXCMSG\]](#).

5.2 Index of Security Parameters

None.

6 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products:

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

Exceptions, if any, are noted below. If a service pack number appears with the product version, behavior changed in that service pack. 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 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 product does not follow the prescription.

<1> [Section 2.2.2.8](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and queries the address book for its value based on [PidLidSharingInitiatorEntryId](#).

<2> [Section 2.2.2.9](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and queries the address book for its value based on [PidLidSharingInitiatorEntryId](#).

<3> [Section 2.2.2.14](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and instead uses a custom value based on [PidLidSharingProviderGuid](#).

<4> [Section 2.2.2.15](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and instead uses a custom value based on [PidLidSharingProviderGuid](#).

<5> [Section 2.2.2.16](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and instead uses a custom value based on [PidLidSharingProviderGuid](#).

<6> [Section 2.2.2.17](#): Office Outlook 2007 sets the value but, upon receipt, ignores the property and instead uses a custom value based on [PidLidSharingProviderGuid](#).

<7> [Section 2.2.4](#): Office Outlook 2007 sets these properties.

<8> [Section 2.2.4.5](#): Office Outlook 2007 sets this property to the same value as [PidLidSharingLocalType](#), but only uses [PidLidSharingLocalType](#) to determine behavior.

<9> [Section 2.2.4.6](#): Office Outlook 2007 sets this property to the same value as [PidLidSharingRemoteType](#), but only uses [PidLidSharingLocalType](#) to determine behavior.

<10> [Section 2.2.5](#): Office Outlook 2007 sets differing subsets of these properties in different scenarios but their values have no meaning in the context of this protocol.

<11> [Section 3.1](#): Office Outlook 2003 and Office Outlook 2007 only create and operate upon Sharing Message objects that are stored by Exchange 2007 and Exchange 2010.

7 Change Tracking

This section identifies changes that were made to the [MS-OXSHARE] protocol document between the August 2010 and November 2010 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.
- Changes made for template compliance.
- Removal of a document from the documentation set.

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

The revision class **Editorial** means that the 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 revision 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
2.2.2.8 PidLidSharingInitiatorName	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.2.9 PidLidSharingInitiatorSmtpt	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.2.14 PidLidSharingProviderName	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.2.15 PidNameXSharingProviderName	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.2.16 PidLidSharingProviderUrl	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.2.17 PidNameXSharingProviderUrl	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change Type
2.2.4.5 PidLidSharingRemoteType	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
2.2.4.6 PidNameXSharingRemoteType	58042 Changed product behavior note to specify that this behavior originated with Outlook 2007.	Y	Content updated.
3.1 Client Details	56620 Added product behavior note regarding how Outlook 2003 and Outlook 2007 implement Sharing Message objects.	Y	Content updated.

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