

# [MS-OXSHARE]: Sharing Message Object Protocol Specification

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# Table of Contents

<b>1</b>	<b>Introduction</b>	<b>5</b>
1.1	Glossary	5
1.2	References	6
1.2.1	Normative References	6
1.2.2	Informative References	6
1.3	Protocol Overview	6
1.4	Relationship to Other Protocols	7
1.5	Prerequisites/Preconditions	7
1.6	Applicability Statement	7
1.7	Versioning and Capability Negotiation	7
1.8	Vendor-Extensible Fields	7
1.9	Standards Assignments	7
<b>2</b>	<b>Messages</b>	<b>7</b>
2.1	Transport	7
2.2	Message Syntax	7
2.2.1	Common Sharing Message Object Properties	8
2.2.1.1	PidLidSharingCapabilities	8
2.2.1.2	PidNameXSharingCapabilities	8
2.2.1.3	PidLidSharingConfigurationUrl	8
2.2.1.4	PidNameXSharingConfigUrl	9
2.2.1.5	PidLidSharingFlavor	9
2.2.1.6	PidNameXSharingFlavor	9
2.2.1.7	PidLidSharingInitiatorEntryId	9
2.2.1.8	PidLidSharingInitiatorName	9
2.2.1.9	PidLidSharingInitiatorSmtpt	10
2.2.1.10	PidLidSharingLocalType	10
2.2.1.11	PidNameXSharingLocalType	10
2.2.1.12	PidLidSharingProviderGuid	10
2.2.1.13	PidNameXSharingProviderGuid	10
2.2.1.14	PidLidSharingProviderName	10
2.2.1.15	PidNameXSharingProviderName	10
2.2.1.16	PidLidSharingProviderUrl	11
2.2.1.17	PidNameXSharingProviderUrl	11
2.2.2	Sharing Request Properties	11
2.2.2.1	PidLidSharingResponseTime	11
2.2.2.2	PidLidSharingResponseType	11
2.2.3	Sharing Invitation Properties	11
2.2.3.1	PidLidSharingRemoteName	12
2.2.3.2	PidNameXSharingRemoteName	12
2.2.3.3	PidLidSharingRemoteStoreUid	12

2.2.3.4	PidNameXSharingRemoteStoreUid .....	12
2.2.3.5	PidLidSharingRemoteType .....	12
2.2.3.6	PidNameXSharingRemoteType.....	12
2.2.3.7	PidLidSharingRemoteUid .....	12
2.2.3.8	PidNameXSharingRemoteUid .....	12
2.2.4	Ignored Properties .....	13
2.2.5	Additional Property Constraints .....	14
2.2.5.1	PidNameContentClass .....	15
2.2.5.2	PidTagMessageClass .....	15
<b>3</b>	<b><i>Protocol Details</i></b> .....	<b>15</b>
3.1	Client Details.....	15
3.1.1	Abstract Data Model .....	15
3.1.2	Timers .....	15
3.1.3	Initialization .....	15
3.1.4	Higher-Layer Triggered Events.....	15
3.1.4.1	Creating a Sharing Invitation.....	15
3.1.4.2	Creating a Sharing Request .....	18
3.1.4.3	Creating a Sharing Response – Accept.....	19
3.1.4.4	Creating a Sharing Response – Deny .....	22
3.1.5	Message Processing Events and Sequencing Rules .....	23
3.1.6	Timer Events .....	23
3.1.7	Other Local Events.....	23
<b>4</b>	<b><i>Protocol Examples</i></b> .....	<b>23</b>
4.1	Sending a Sharing Request.....	27
4.2	Denying a Sharing Request.....	28
4.3	Accepting a Sharing Request .....	31
<b>5</b>	<b><i>Security</i></b> .....	<b>35</b>
5.1	Security Considerations for Implementers .....	35
5.2	Index of Security Parameters .....	35
<b>6</b>	<b><i>Appendix A: Office/Exchange Behavior</i></b> .....	<b>35</b>
	<b><i>Index</i></b> .....	<b>37</b>

# 1 Introduction

**Sharing Message objects** are 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**  
**Message object**  
**named property**  
**property**  
**property ID**  
**remote operation (ROP)**  
**special folder**

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

[MS-OXCFOLD] Microsoft Corporation, "Folder Object Protocol Specification", June 2008.

[MS-OXCMSG] Microsoft Corporation, "Message and Attachment Object Protocol Specification", June 2008.

[MS-OXCPRPT] Microsoft Corporation, "Property and Stream Object Protocol Specification", June 2008.

[MS-OXGLOS] Microsoft Corporation, "Exchange Server Protocols Master Glossary", June 2008.

[MS-OXOABK] Microsoft Corporation, "Address Book Object Protocol Specification", June 2008.

[MS-OXODLGT] Microsoft Corporation, "Delegate Access Configuration Protocol Specification", June 2008.

[MS-OXOMSG] Microsoft Corporation, "E-Mail Object Protocol Specification", June 2008.

[MS-OXOSFLD] Microsoft Corporation, "Special Folders Protocol Specification", June 2008.

[MS-OXPROPS] Microsoft Corporation, "Exchange Server Protocols Master Property List Specification", June 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

None.

## 1.3 Protocol 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** [MS-OXCPRPT], [MS-OXCFOLD], [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 and the Message and Attachment Object protocol [MS-OXOMSG] [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".

## 2.2.1 Common Sharing Message Object Properties

The following properties are specific to Sharing Message objects.

### 2.2.1.1 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.

### 2.2.1.2 PidNameXSharingCapabilities

Type: **PtypString**.

The hexadecimal string representation of **PidLidSharingCapabilities**.

### 2.2.1.3 PidLidSharingConfigurationUrl

Type: **PtypString**.

MUST be a zero-length string.



#### 2.2.1.4 PidNameXSharingConfigUrl

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingConfigurationUrl**.

#### 2.2.1.5 PidLidSharingFlavor

Type: **PtypInteger32**.

MUST be one of the following values:

Value	Type of Sharing Message object
0x00020310	A <b>sharing invitation</b> for a special folder.
0x00000310	A sharing invitation for a folder that is not a special folder.
0x00020500	A <b>sharing request</b> .
0x00020710	Both a sharing invitation for a special folder and a sharing request for the recipient's equivalent special folder.
0x00025100	A <b>sharing response</b> denying a request.
0x00023310	A sharing response accepting a request (also a type of sharing invitation).

#### 2.2.1.6 PidNameXSharingFlavor

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of **PidLidSharingFlavor**.

#### 2.2.1.7 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]).

#### 2.2.1.8 PidLidSharingInitiatorName

Type: **PtypString**.

MUST be set to the value of **PidTagDisplayName** from the Address Book object identified by **PidLidSharingInitiatorEntryId** and SHOULD be ignored <1>.

### 2.2.1.9 PidLidSharingInitiatorSmtip

Type: **PtypString**.

MUST be set to the value of **PidTagSmtipAddress** from the Address Book object identified by **PidLidSharingInitiatorEntryId** and SHOULD be ignored <2>.

### 2.2.1.10 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"

### 2.2.1.11 PidNameXSharingLocalType

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingLocalType**.

### 2.2.1.12 PidLidSharingProviderGuid

Type: **PtypBinary**.

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

### 2.2.1.13 PidNameXSharingProviderGuid

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of **PidLidSharingProviderGuid**. That is, "AEF0060000000000C0000000000046".

### 2.2.1.14 PidLidSharingProviderName

Type: **PtypString**.

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

### 2.2.1.15 PidNameXSharingProviderName

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingProviderName** and SHOULD be ignored <4>.

#### 2.2.1.16 PidLidSharingProviderUrl

Type: **PtypString**.

A URL related to the sharing provider identified by **PidLidSharingProviderGuid**. Generally used to provide more information about the sharing provider. SHOULD be ignored <5>.

#### 2.2.1.17 PidNameXSharingProviderUrl

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingProviderUrl** and SHOULD be ignored <6>.

### 2.2.2 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.

#### 2.2.2.1 PidLidSharingResponseTime

Type: **PtypTime**.

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

#### 2.2.2.2 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
0x00000000	No response
0x00000001	Accepted
0x00000002	Denied

### 2.2.3 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>.

#### **2.2.3.1 PidLidSharingRemoteName**

Type: **PtypString**.

MUST be set to the value of **PidTagDisplayName** on the folder being shared.

#### **2.2.3.2 PidNameXSharingRemoteName**

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingRemoteName**.

#### **2.2.3.3 PidLidSharingRemoteStoreUid**

Type: **PtypString**.

MUST be set to a hexadecimal string representation of the value of **PidTagStoreEntryId** on the folder being shared.

#### **2.2.3.4 PidNameXSharingRemoteStoreUid**

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingRemoteStoreUid**.

#### **2.2.3.5 PidLidSharingRemoteType**

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingLocalType** and SHOULD be ignored <8>.

#### **2.2.3.6 PidNameXSharingRemoteType**

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingRemoteType** and SHOULD be ignored <9>.

#### **2.2.3.7 PidLidSharingRemoteUid**

Type: **PtypString**.

MUST be set to the hexadecimal string representation of the value of **PidTagEntryId** on the folder being shared.

#### **2.2.3.8 PidNameXSharingRemoteUid**

Type: **PtypString**.

MUST be set to the same value as **PidLidSharingRemoteUid**.

## 2.2.4 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**

### **2.2.5 Additional Property Constraints**

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

### 2.2.5.1 PidNameContentClass

Type: **PtypString**.

MUST be set to "Sharing".

### 2.2.5.2 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].

#### 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
----------	--------------

<b>PidTagMessageClass</b>	"IPM.Sharing" or a value that begins with "IPM.Sharing."
<b>PidNameContentClass</b>	"Sharing"
<b>PidLidSharingProviderGuid</b>	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
<b>PidNameXSharingProviderGuid</b>	"AEF0060000000000C000000000000046"
<b>PidLidSharingProviderName</b>	A user-displayable name of the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderName</b>	The same value as <b>PidLidSharingProviderName</b> .
<b>PidLidSharingProviderUrl</b>	A URL related to the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderUrl</b>	The same value as <b>PidLidSharingProviderUrl</b> .
<b>PidLidSharingConfigurationUrl</b>	A zero-length string.
<b>PidNameXSharingConfigUrl</b>	The same value as <b>PidLidSharingConfigurationUrl</b> .
<b>PidLidSharingFlavor</b>	If the folder being shared is a special folder: 0x00020310  If the folder being shared is not a special folder: 0x00000310
<b>PidNameXSharingFlavor</b>	If the folder being shared is a special folder: "20310"  If the folder being shared is not a special folder: "310"
<b>PidLidSharingCapabilities</b>	If the folder being shared is a special folder: 0x00040290  If the folder being shared is not a special folder: 0x000402B0
<b>PidNameXSharingCapabilities</b>	If the folder being shared is a special folder: "40290"  If the folder being shared is not a special folder: "402B0"



<b>PidLidSharingInitiatorEntryId</b>	The value of <b>PidTagEntryId</b> for the Address Book object of the currently logged in user.
<b>PidLidSharingInitiatorName</b>	The value of <b>PidTagDisplayName</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingInitiatorSmtp</b>	The value of <b>PidTagSmtpAddress</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingRemoteName</b>	The value of <b>PidTagDisplayName</b> on the folder being shared.
<b>PidNameXSharingRemoteName</b>	The same value as <b>PidLidSharingRemoteName</b> .
<b>PidLidSharingRemoteUid</b>	The value of <b>PidTagEntryId</b> on the folder being shared.
<b>PidNameXSharingRemoteUid</b>	Hexadecimal string representation of the value of <b>PidLidSharingRemoteUid</b> .
<b>PidLidSharingRemoteStoreUid</b>	The value of <b>PidTagStoreEntryId</b> on the folder being shared.
<b>PidNameXSharingRemoteStoreUid</b>	Hexadecimal string representation of the value of <b>PidLidSharingRemoteStoreUid</b> .
<b>PidLidSharingLocalType</b>	A value from Table 1 according to the type of folder being shared.
<b>PidNameXSharingLocalType</b>	The same value as <b>PidLidSharingLocalType</b> .
<b>PidLidSharingRemoteType</b>	The same value as <b>PidLidSharingLocalType</b> .
<b>PidNameXSharingRemoteType</b>	The same value as <b>PidLidSharingRemoteType</b> .

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

**Table 1: Valid Values for PidLidSharingLocalType on a Sharing Invitation**

Type of folder	Valid value
Calendar	"IPF.Appointment"

Contacts	"IPF.Contact"
Tasks	"IPF.Task"
Notes	"IPF.StickyNote"
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
<b>PidTagMessageClass</b>	"IPM.Sharing" or a value that begins with "IPM.Sharing."
<b>PidNameContentClass</b>	"Sharing"
<b>PidLidSharingProviderGuid</b>	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
<b>PidNameXSharingProviderGuid</b>	"AEF0060000000000C00000000000046"
<b>PidLidSharingProviderName</b>	A user-displayable name of the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderName</b>	The same value as <b>PidLidSharingProviderName</b> .
<b>PidLidSharingProviderUrl</b>	A URL related to the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderUrl</b>	The same value as <b>PidLidSharingProviderUrl</b> .
<b>PidLidSharingConfigurationUrl</b>	A zero-length string.
<b>PidNameXSharingConfigUrl</b>	The same value as <b>PidLidSharingConfigurationUrl</b> .
<b>PidLidSharingFlavor</b>	0x00020500
<b>PidNameXSharingFlavor</b>	"20500"
<b>PidLidSharingCapabilities</b>	0x00040290

<b>PidNameXSharingCapabilities</b>	"40290"
<b>PidLidSharingInitiatorEntryId</b>	The value of <b>PidTagEntryId</b> for the Address Book object of the currently logged on user.
<b>PidLidSharingInitiatorName</b>	The value of <b>PidTagDisplayName</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingInitiatorSmtp</b>	The value of <b>PidTagSmtpAddress</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingLocalType</b>	A value from Table 2 according to the special folder being requested.
<b>PidNameXSharingLocalType</b>	The same value as <b>PidLidSharingLocalType</b> .

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
<b>PidTagMessageClass</b>	"IPM.Sharing" or a value that begins with "IPM.Sharing."
<b>PidNameContentClass</b>	"Sharing"
<b>PidLidSharingProviderGuid</b>	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
<b>PidNameXSharingProviderGuid</b>	"AEF0060000000000C00000000000046"
<b>PidLidSharingProviderName</b>	A user-displayable name of the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderName</b>	The same value as <b>PidLidSharingProviderName</b> .
<b>PidLidSharingProviderUrl</b>	A URL related to the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderUrl</b>	The same value as <b>PidLidSharingProviderUrl</b> .
<b>PidLidSharingConfigurationUrl</b>	A zero-length string.
<b>PidNameXSharingConfigUrl</b>	The same value as <b>PidLidSharingConfigurationUrl</b> .
<b>PidLidSharingFlavor</b>	0x00023310
<b>PidNameXSharingFlavor</b>	"23310"

<b>PidLidSharingCapabilities</b>	0x00040290
<b>PidNameXSharingCapabilities</b>	"40290"
<b>PidLidSharingInitiatorEntryId</b>	The value of <b>PidTagEntryId</b> for the Address Book object of the currently logged on user.
<b>PidLidSharingInitiatorName</b>	The value of <b>PidTagDisplayName</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingInitiatorSmtp</b>	The value of <b>PidTagSmtpAddress</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingRemoteName</b>	The value of <b>PidTagDisplayName</b> on the special folder being requested.
<b>PidNameXSharingRemoteName</b>	The same value as <b>PidLidSharingRemoteName</b> .
<b>PidLidSharingRemoteUid</b>	The value of <b>PidTagEntryId</b> on the special folder being requested.
<b>PidNameXSharingRemoteUid</b>	Hexadecimal string representation of the value of <b>PidLidSharingRemoteUid</b> .
<b>PidLidSharingRemoteStoreUid</b>	The value of <b>PidTagStoreEntryId</b> on the special folder being requested.
<b>PidNameXSharingRemoteStoreUid</b>	Hexadecimal string representation of the value of <b>PidLidSharingRemoteStoreUid</b> .
<b>PidLidSharingLocalType</b>	The value of <b>PidLidSharingLocalType</b> on the sharing request to which this message is responding.
<b>PidNameXSharingLocalType</b>	The same value as <b>PidLidSharingLocalType</b> .
<b>PidLidSharingRemoteType</b>	The same value as <b>PidLidSharingLocalType</b> .
<b>PidNameXSharingRemoteType</b>	The same value as <b>PidLidSharingRemoteType</b> .

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
<b>PidLidSharingResponseType</b>	0x00000001
<b>PidLidSharingResponseTime</b>	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
<b>PidTagMessageClass</b>	"IPM.Sharing" or a value that begins with "IPM.Sharing."
<b>PidNameContentClass</b>	"Sharing"
<b>PidLidSharingProviderGuid</b>	%xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.46
<b>PidNameXSharingProviderGuid</b>	"AEF0060000000000C000000000000046"
<b>PidLidSharingProviderName</b>	A user-displayable name of the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderName</b>	The same value as <b>PidLidSharingProviderName</b> .
<b>PidLidSharingProviderUrl</b>	A URL related to the sharing provider identified by <b>PidLidSharingProviderGuid</b> .
<b>PidNameXSharingProviderUrl</b>	The same value as <b>PidLidSharingProviderUrl</b> .
<b>PidLidSharingConfigurationUrl</b>	A zero-length string.
<b>PidNameXSharingConfigUrl</b>	The same value as <b>PidLidSharingConfigurationUrl</b> .
<b>PidLidSharingFlavor</b>	0x00025100
<b>PidNameXSharingFlavor</b>	"25100"
<b>PidLidSharingCapabilities</b>	0x00040290

<b>PidNameXSharingCapabilities</b>	"40290"
<b>PidLidSharingInitiatorEntryId</b>	The value of <b>PidTagEntryId</b> for the Address Book object of the currently logged on user.
<b>PidLidSharingInitiatorName</b>	The value of <b>PidTagDisplayName</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PidLidSharingInitiatorSmtp</b>	The value of <b>PidTagSmtpAddress</b> from the Address Book object identified by <b>PidLidSharingInitiatorEntryId</b> .
<b>PiLidSharingLocalType</b>	The value of <b>PidLidSharingLocalType</b> on the sharing request to which this message is responding.
<b>PidNameXSharingLocalType</b>	The same value as <b>PidLidSharingLocalType</b> .

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
<b>PidLidSharingResponseType</b>	0x00000002
<b>PidLidSharingResponseTime</b>	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 identifiers**, using **RopGetPropertyIdsFromNames**.

Property	Property Set GUID	NameID
<b>PidNameContentClass</b>	{00020386-0000-0000-c000-000000000046}	Content-Class
<b>PidLidSharingProviderGuid</b>	{00062040-0000-0000-C000-000000000046}	0x00008A01
<b>PidNameXSharingProviderGuid</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-Guid
<b>PidLidSharingProviderName</b>	{00062040-0000-0000-C000-000000000046}	0x00008A02
<b>PidNameXSharingProviderName</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-Name
<b>PidLidSharingProviderUrl</b>	{00062040-0000-0000-C000-000000000046}	0x00008A03
<b>PidNameXSharingProviderUrl</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Provider-Url
<b>PidLidSharingConfigurationUrl</b>	{00062040-0000-0000-C000-000000000046}	0x00008A24
<b>PidNameXSharingConfigUrl</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Config-Url
<b>PidLidSharingFlavor</b>	{00062040-0000-0000-C000-000000000046}	0x00008A18
<b>PidNameXSharingFlavor</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Flavor
<b>PidLidSharingCapabilities</b>	{00062040-0000-0000-C000-000000000046}	0x00008A17
<b>PidNameXSharingCapabilities</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Capabilities
<b>PiLidSharingLocalType</b>	{00062040-0000-0000-C000-000000000046}	0x00008A14



<b>PidNameXSharingLocalType</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Local-Type
<b>PidLidSharingInitiatorEntryId</b>	{00062040-0000-0000-C000-000000000046}	0x00008A09
<b>PidLidSharingInitiatorName</b>	{00062040-0000-0000-C000-000000000046}	0x00008A07
<b>PidLidSharingInitiatorSntp</b>	{00062040-0000-0000-C000-000000000046}	0x00008A08
<b>PidLidSharingRemoteName</b>	{00062040-0000-0000-C000-000000000046}	0x00008A05
<b>PidNameXSharingRemoteName</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Name
<b>PidLidSharingRemoteType</b>	{00062040-0000-0000-C000-000000000046}	0x00008A1D
<b>PidNameXSharingRemoteType</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Type
<b>PidLidSharingRemoteUid</b>	{00062040-0000-0000-C000-000000000046}	0x00008A06
<b>PidNameXSharingRemoteUid</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Uid
<b>PidLidSharingRemoteStoreUid</b>	{00062040-0000-0000-C000-000000000046}	0x00008A48
<b>PidNameXSharingRemoteStoreUid</b>	{00020386-0000-0000-C000-000000000046}	X-Sharing-Remote-Store-Uid
<b>PidLidSharingResponseType</b>	{00062040-0000-0000-C000-000000000046}	0x00008A27
<b>PidLidSharingResponseTime</b>	{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
<b>PidNameContentClass</b>	0x806D
<b>PidLidSharingProviderGuid</b>	0x8243
<b>PidNameXSharingProviderGuid</b>	0x836F

<b>PidLidSharingProviderName</b>	0x8244
<b>PidNameXSharingProviderName</b>	0x8370
<b>PidLidSharingProviderUrl</b>	0x8245
<b>PidNameXSharingProviderUrl</b>	0x8371
<b>PidLidSharingConfigurationUrl</b>	0x83D0
<b>PidNameXSharingConfigUrl</b>	0x8377
<b>PidLidSharingFlavor</b>	0x823D
<b>PidNameXSharingFlavor</b>	0x836D
<b>PidLidSharingCapabilities</b>	0x823C
<b>PidNameXSharingCapabilities</b>	0x836C
<b>PiLidSharingLocalType</b>	0x824F
<b>PidNameXSharingLocalType</b>	0x8379
<b>PidLidSharingInitiatorEntryId</b>	0x8249
<b>PidLidSharingInitiatorName</b>	0x8029
<b>PidLidSharingInitiatorSmtip</b>	0x8248
<b>PidLidSharingRemoteName</b>	0x8026
<b>PidNameXSharingRemoteName</b>	0x8373
<b>PidLidSharingRemoteType</b>	0x8247
<b>PidNameXSharingRemoteType</b>	0x8376
<b>PidLidSharingRemoteUid</b>	0x8246
<b>PidNameXSharingRemoteUid</b>	0x8374
<b>PidLidSharingRemoteStoreUid</b>	0x83E1
<b>PidNameXSharingRemoteStoreUid</b>	0x8375
<b>PidLidSharingResponseType</b>	0x83E4
<b>PidLidSharingResponseTime</b>	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
<b>PidTagMessageClass</b>	0x001A	<b>PtypString</b>	"IPM.Sharing"
<b>PidNameContentClass</b>	0x806D	<b>PtypString</b>	"Sharing"
<b>PidTagNormalizedSubject</b>	0x0E1D	<b>PtypString</b>	"Sharing Request: Calendar"
<b>PidTagSubjectPrefix</b>	0x003D	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingProviderGuid</b>	0x8243	<b>PtypBinary</b>	(See Figure 1)
<b>PidNameXSharingProviderGuid</b>	0x836F	<b>PtypString</b>	"AEF0060000000000C000000000000046"
<b>PidLidSharingProviderName</b>	0x8244	<b>PtypString</b>	"Microsoft Exchange"
<b>PidNameXSharingProviderName</b>	0x8370	<b>PtypString</b>	"Microsoft Exchange"
<b>PidLidSharingProviderUrl</b>	0x8245	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidNameXSharingProviderUrl</b>	0x8371	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidLidSharingConfigurationUrl</b>	0x83D0	<b>PtypString</b>	"" (a zero-length string)
<b>PidNameXSharingConfigUrl</b>	0x8377	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingFlavor</b>	0x823D	<b>PtypInteger32</b>	0x00020500
<b>PidNameXSharingFlavor</b>	0x836D	<b>PtypString</b>	"20500"
<b>PidLidSharingCapabilities</b>	0x823C	<b>PtypInteger32</b>	0x00040290
<b>PidNameXSharingCapabilities</b>	0x836C	<b>PtypString</b>	"40290"

<b>PiLidSharingLocalType</b>	0x824F	<b>PtypString</b>	"IPF.Appointment"
<b>PidNameXSharingLocalType</b>	0x8379	<b>PtypString</b>	"IPF.Appointment"
<b>PidLidSharingInitiatorEntryId</b>	0x8249	<b>PtypBinary</b>	(See Figure 2)
<b>PidLidSharingInitiatorName</b>	0x8029	<b>PtypString</b>	user12
<b>PidLidSharingInitiatorSntp</b>	0x8248	<b>PtypString</b>	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
<b>PidTagMessageClass</b>	0x001A	<b>PtypString</b>	"IPM.Sharing"
<b>PidNameContentClass</b>	0x806d	<b>PtypString</b>	"Sharing"
<b>PidTagNormalizedSubject</b>	0x0E1D	<b>PtypString</b>	"Denied: Sharing Request: Calendar"
<b>PidTagSubjectPrefix</b>	0x003D	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingProviderGuid</b>	0x8243	<b>PtypBinary</b>	<i>(See Figure 3)</i>
<b>PidNameXSharingProviderGuid</b>	0x836F	<b>PtypString</b>	"AEF00600000000000C000000000000046"
<b>PidLidSharingProviderName</b>	0x8244	<b>PtypString</b>	"Microsoft Exchange"
<b>PidNameXSharingProviderName</b>	0x8370	<b>PtypString</b>	"Microsoft Exchange"
<b>PidLidSharingProviderUrl</b>	0x8245	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidNameXSharingProviderUrl</b>	0x8371	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidLidSharingConfigurationUrl</b>	0x83D0	<b>PtypString</b>	"" (a zero-length string)
<b>PidNameXSharingConfigUrl</b>	0x8377	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingFlavor</b>	0x823D	<b>PtypInteger32</b>	0x00025100
<b>PidNameXSharingFlavor</b>	0x836D	<b>PtypString</b>	"25100"
<b>PidLidSharingCapabilities</b>	0x823C	<b>PtypInteger32</b>	0x00040290
<b>PidNameXSharingCapabilities</b>	0x836C	<b>PtypString</b>	"40290"
<b>PiLidSharingLocalType</b>	0x824F	<b>PtypString</b>	"IPF.Appointment"
<b>PidNameXSharingLocalType</b>	0x8379	<b>PtypString</b>	"IPF.Appointment"
<b>PidLidSharingInitiatorEntryId</b>	0x8249	<b>PtypBinary</b>	<i>(See Figure 4)</i>

<b>PidLidSharingInitiatorName</b>	0x8029	<b>PtypString</b>	user12
<b>PidLidSharingInitiatorSmtpt</b>	0x8248	<b>PtypString</b>	user12@fabrikam.com

Figure 3 shows the value of **PidLidSharingProviderGuid**.

16 Bytes

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

**Figure 3: Value of PidLidSharingProviderGuid**

Figure 4 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 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
<b>PidLidSharingResponseType</b>	0x83E4	<b>PtypInteger32</b>	02 00 00 00	0x00000002
<b>PidLidSharingResponseTime</b>	0x83E3	<b>PtypTime</b>	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
<b>PidTagMessageClass</b>	0x001A	<b>PtypString</b>	"IPM.Sharing"
<b>PidNameContentClass</b>	0x806d	<b>PtypString</b>	"Sharing"
<b>PidTagNormalizedSubject</b>	0x0E1D	<b>PtypString</b>	"Allowed: Sharing Request: Calendar"
<b>PidTagSubjectPrefix</b>	0x003D	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingProviderGuid</b>	0x8243	<b>PtypBinary</b>	(See Figure 5)
<b>PidNameXSharingProviderGuid</b>	0x836F	<b>PtypString</b>	"AEF006000000000000000000000000046"
<b>PidLidSharingProviderName</b>	0x8244	<b>PtypString</b>	"Microsoft Exchange"
<b>PidNameXSharingProviderName</b>	0x8370	<b>PtypString</b>	"Microsoft Exchange"
<b>PidLidSharingProviderUrl</b>	0x8245	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidNameXSharingProviderUrl</b>	0x8371	<b>PtypString</b>	"http://www.microsoft.com/exchange"
<b>PidLidSharingConfigurationUrl</b>	0x83D0	<b>PtypString</b>	"" (a zero-length string)
<b>PidNameXSharingConfigUrl</b>	0x8377	<b>PtypString</b>	"" (a zero-length string)
<b>PidLidSharingFlavor</b>	0x823D	<b>PtypInteger32</b>	0x00023310
<b>PidNameXSharingFlavor</b>	0x836D	<b>PtypString</b>	"23310"

<b>PidLidSharingCapabilities</b>	0x823C	<b>PtypInteger32</b>	0x00040290
<b>PidNameXSharingCapabilities</b>	0x836C	<b>PtypString</b>	"40290"
<b>PiLidSharingLocalType</b>	0x824F	<b>PtypString</b>	"IPF.Appointment"
<b>PidNameXSharingLocalType</b>	0x8379	<b>PtypString</b>	"IPF.Appointment"
<b>PidLidSharingInitiatorEntryId</b>	0x8249	<b>PtypBinary</b>	<i>(See Figure 6)</i>
<b>PidLidSharingInitiatorName</b>	0x8029	<b>PtypString</b>	user10
<b>PidLidSharingInitiatorSmtP</b>	0x8248	<b>PtypString</b>	user10@fabrikam.com
<b>PidLidSharingRemoteName</b>	0x8026	<b>PtypString</b>	"Calendar"
<b>PidNameXSharingRemoteName</b>	0x8373	<b>PtypString</b>	"Calendar"
<b>PidLidSharingRemoteType</b>	0x8247	<b>PtypString</b>	"IPF.Appointment"
<b>PidNameXSharingRemoteType</b>	0x8376	<b>PtypString</b>	"IPF.Appointment"
<b>PidLidSharingRemoteUid</b>	0x8246	<b>PtypString</b>	"00000000B0FCA4F63C21A642BD4B8F1BDBA04BC60100612A7BAB49F64E4B9C52DBFB5A53AA1C000000F04EEF0000"
<b>PidNameXSharingRemoteUid</b>	0x8374	<b>PtypString</b>	"00000000B0FCA4F63C21A642BD4B8F1BDBA04BC60100612A7BAB49F64E4B9C52DBFB5A53AA1C000000F04EEF0000"
<b>PidLidSharingRemoteStoreUid</b>	0x83E1	<b>PtypString</b>	"0000000038A1BB1005E5101AA1BB08002B2A56C20000454D534D44422E444C4C000000000000000001B55FA20AA6611CD9BC800AA002FC45A0C0000003336353952392D413131002F6F3D4669"



			727374204F726761 6E697A6174696F6 E2F6F753D4578636 8616E67652041646 D696E69737472617 46976652047726F7 5702028465944494 24F4846323353504 44C54292F636E3D 526563697069656E 74732F636E3D7573 6572313000"
<b>PidNameXSharingRemoteStoreU id</b>	0x8375	<b>PtypString</b>	"0000000038A1BB1 005E5101AA1BB08 002B2A56C200004 54D534D44422E44 4C4C000000000000 00001B55FA20AA6 611CD9BC800AA0 02FC45A0C000000 3336353952392D41 3131002F6F3D4669 727374204F726761 6E697A6174696F6 E2F6F753D4578636 8616E67652041646 D696E69737472617 46976652047726F7 5702028465944494 24F4846323353504 44C54292F636E3D 526563697069656E 74732F636E3D7573 6572313000"

Figure 5 shows the value of **PidLidSharingProviderGuid**.

16 Bytes

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

**Figure 5: Value of PidLidSharingProviderGuid**

Figure 6 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 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
<b>PidLidSharingResponseType</b>	0x83E4	<b>PtypInteger32</b>	01 00 00 00	0x00000001
<b>PidLidSharingResponseTime</b>	0x83E3	<b>PtypTime</b>	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: Office/Exchange Behavior

The information in this specification is applicable to the following versions of Office/Exchange:

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

Exceptions, if any, are noted below. Unless otherwise specified, any statement of optional behavior in this specification prescribed using the terms SHOULD or SHOULD NOT implies Office/Exchange behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies Office/Exchange does not follow the prescription.

---

<1> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and queries the address book for its value based on **PidLidSharingInitiatorEntryId**.

<2> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and queries the address book for its value based on **PidLidSharingInitiatorEntryId**.

<3> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and instead uses a custom value based on **PidLidSharingProviderGuid**.

<4> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and instead uses a custom value based on **PidLidSharingProviderGuid**.

<5> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and instead uses a custom value based on **PidLidSharingProviderGuid**.

---

<6> Outlook 2007 SP1 sets the value but, upon receipt, ignores the property and instead uses a custom value based on **PidLidSharingProviderGuid**.

<7> Outlook 2007 SP1 sets these properties.

<8> Outlook 2007 SP1 sets this property to the same value as **PidLidSharingLocalType**, but only uses **PidLidSharingLocalType** to determine behavior.

<9> Outlook 2007 SP1 sets this property to the same value as **PidLidSharingRemoteType**, but only uses **PidLidSharingLocalType** to determine behavior.

<10> Outlook 2007 SP1 sets differing subsets of these properties in different scenarios but their values have no meaning in the context of this protocol.

# Index

- Accepting a sharing request, 31
- Applicability statement, 7
- Client details, 15
- Denying a sharing request, 28
- Glossary, 5
- Index of security parameters, 35
- Informative references, 6
- Introduction, 5
- Message syntax, 7
- Messages, 7
  - Message syntax, 7
  - Transport, 7
- Normative references, 6
- Office/Exchange behavior, 35
- Prerequisites/preconditions, 7
- Protocol details, 15
  - Client details, 15
- Protocol examples, 23
  - Accepting a sharing request, 23
  - Denying a sharing request, 23
  - Sending a sharing request, 23
- Protocol Overview, 6
- References, 6
  - Informative references, 6
  - Normative references, 6
- Relationship to other protocols, 7
- Security, 35
  - Index of security parameters, 35
  - Security considerations for implementers, 35
- Security considerations for implementers, 35
- Sending a sharing request, 27
- Standards assignments, 7
- Transport, 7
- Vendor-extensible fields, 7
- Versioning and capability negotiation, 7