**[MS-OXSHARE]:**

**Sharing Message Object Protocol**

Intellectual Property Rights Notice for Open Specifications Documentation

* **Technical Documentation.** Microsoft publishes Open Specifications documentation (“this documentation”) for protocols, file formats, data portability, computer languages, and standards support. Additionally, overview documents cover inter-protocol relationships and interactions.
* **Copyrights**. This documentation is covered by Microsoft copyrights. Regardless of any other terms that are contained in the terms of use for the Microsoft website that hosts this documentation, you can make copies of it in order to develop implementations of the technologies that are described in this documentation and can distribute portions of it in your implementations that use these technologies or in your documentation as necessary to properly document the implementation. You can also distribute in your implementation, with or without modification, any schemas, IDLs, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications documentation.
* **No Trade Secrets**. Microsoft does not claim any trade secret rights in this documentation.
* **Patents**. Microsoft has patents that might cover your implementations of the technologies described in the Open Specifications documentation. Neither this notice nor Microsoft's delivery of this documentation grants any licenses under those patents or any other Microsoft patents. However, a given Open Specifications document might be covered by the Microsoft [Open Specifications Promise](https://go.microsoft.com/fwlink/?LinkId=214445) or the [Microsoft Community Promise](https://go.microsoft.com/fwlink/?LinkId=214448). If you would prefer a written license, or if the technologies described in this documentation are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting iplg@microsoft.com.
* **License Programs**. To see all of the protocols in scope under a specific license program and the associated patents, visit the [Patent Map](https://aka.ms/AA9ufj8).
* **Trademarks**. The names of companies and products contained in this documentation might be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights. For a list of Microsoft trademarks, visit [www.microsoft.com/trademarks](https://www.microsoft.com/trademarks).
* **Fictitious Names**. The example companies, organizations, products, domain names, email addresses, logos, people, places, and events that are depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

**Reservation of Rights**. All other rights are reserved, and this notice does not grant any rights other than as specifically described above, whether by implication, estoppel, or otherwise.

**Tools**. The Open Specifications documentation does not require the use of Microsoft programming tools or programming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments, you are free to take advantage of them. Certain Open Specifications documents are intended for use in conjunction with publicly available standards specifications and network programming art and, as such, assume that the reader either is familiar with the aforementioned material or has immediate access to it.

**Support.** For questions and support, please contact dochelp@microsoft.com.

**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 4/4/2008 | 0.1 | New | Initial Availability. |
| 4/25/2008 | 0.2 | Minor | Revised and updated property names and other technical content. |
| 6/27/2008 | 1.0 | Major | Initial Release. |
| 8/6/2008 | 1.01 | Minor | Revised and edited technical content. |
| 12/2/2009 | 1.02 | Minor | Updated references. |
| 12/3/2008 | 1.03 | Minor | Updated IP notice. |
| 4/10/2009 | 2.0 | Major | Updated technical content and applicable product releases. |
| 7/15/2009 | 3.0 | Major | Revised and edited for technical content. |
| 11/4/2009 | 3.0.1 | Editorial | Revised and edited the technical content. |
| 2/10/2010 | 3.0.1 | None | Version 3.0.1 release |
| 5/5/2010 | 3.0.2 | Editorial | Revised and edited the technical content. |
| 8/4/2010 | 3.1 | Minor | Clarified the meaning of the technical content. |
| 11/3/2010 | 4.0 | Major | Significantly changed the technical content. |
| 3/18/2011 | 4.0 | None | No changes to the meaning, language, and formatting of the technical content. |
| 8/5/2011 | 4.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/7/2011 | 4.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/20/2012 | 5.0 | Major | Significantly changed the technical content. |
| 4/27/2012 | 5.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/16/2012 | 5.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/8/2012 | 5.1 | Minor | Clarified the meaning of the technical content. |
| 2/11/2013 | 5.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 7/26/2013 | 5.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/18/2013 | 5.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/10/2014 | 5.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/30/2014 | 5.2 | Minor | Clarified the meaning of the technical content. |
| 7/31/2014 | 5.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/30/2014 | 5.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/16/2015 | 6.0 | Major | Significantly changed the technical content. |
| 5/26/2015 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/14/2015 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 6/13/2016 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/14/2016 | 6.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 9/19/2017 | 6.1 | Minor | Clarified the meaning of the technical content. |
| 7/24/2018 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/1/2018 | 6.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 4/22/2021 | 7.0 | Major | Significantly changed the technical content. |
| 8/17/2021 | 8.0 | Major | Significantly changed the technical content. |
| 4/16/2024 | 9.0 | Major | Significantly changed the technical content. |

Table of Contents

[1 Introduction 6](#_Toc163746723)

[1.1 Glossary 6](#_Toc163746724)

[1.2 References 7](#_Toc163746725)

[1.2.1 Normative References 7](#_Toc163746726)

[1.2.2 Informative References 8](#_Toc163746727)

[1.3 Overview 8](#_Toc163746728)

[1.4 Relationship to Other Protocols 8](#_Toc163746729)

[1.5 Prerequisites/Preconditions 8](#_Toc163746730)

[1.6 Applicability Statement 8](#_Toc163746731)

[1.7 Versioning and Capability Negotiation 8](#_Toc163746732)

[1.8 Vendor-Extensible Fields 8](#_Toc163746733)

[1.9 Standards Assignments 8](#_Toc163746734)

[2 Messages 9](#_Toc163746735)

[2.1 Transport 9](#_Toc163746736)

[2.2 Message Syntax 9](#_Toc163746737)

[2.2.1 Common Message Object Properties 9](#_Toc163746738)

[2.2.2 Common Sharing Message Object Properties 9](#_Toc163746739)

[2.2.2.1 PidLidSharingCapabilities Property 9](#_Toc163746740)

[2.2.2.2 PidNameXSharingCapabilities Property 10](#_Toc163746741)

[2.2.2.3 PidLidSharingConfigurationUrl Property 10](#_Toc163746742)

[2.2.2.4 PidNameXSharingConfigUrl Property 10](#_Toc163746743)

[2.2.2.5 PidLidSharingFlavor Property 10](#_Toc163746744)

[2.2.2.6 PidNameXSharingFlavor Property 11](#_Toc163746745)

[2.2.2.7 PidLidSharingInitiatorEntryId Property 11](#_Toc163746746)

[2.2.2.8 PidLidSharingInitiatorName Property 11](#_Toc163746747)

[2.2.2.9 PidLidSharingInitiatorSmtp Property 11](#_Toc163746748)

[2.2.2.10 PidLidSharingLocalType Property 12](#_Toc163746749)

[2.2.2.11 PidNameXSharingLocalType Property 12](#_Toc163746750)

[2.2.2.12 PidLidSharingProviderGuid Property 12](#_Toc163746751)

[2.2.2.13 PidNameXSharingProviderGuid Property 12](#_Toc163746752)

[2.2.2.14 PidLidSharingProviderName Property 12](#_Toc163746753)

[2.2.2.15 PidNameXSharingProviderName Property 13](#_Toc163746754)

[2.2.2.16 PidLidSharingProviderUrl Property 13](#_Toc163746755)

[2.2.2.17 PidNameXSharingProviderUrl Property 13](#_Toc163746756)

[2.2.3 Sharing Invitation and Response Acceptance Properties 13](#_Toc163746757)

[2.2.3.1 PidLidSharingRemoteName Property 13](#_Toc163746758)

[2.2.3.2 PidNameXSharingRemoteName Property 13](#_Toc163746759)

[2.2.3.3 PidLidSharingRemoteStoreUid Property 13](#_Toc163746760)

[2.2.3.4 PidNameXSharingRemoteStoreUid Property 14](#_Toc163746761)

[2.2.3.5 PidLidSharingRemoteType Property 14](#_Toc163746762)

[2.2.3.6 PidNameXSharingRemoteType Property 14](#_Toc163746763)

[2.2.3.7 PidLidSharingRemoteUid Property 14](#_Toc163746764)

[2.2.3.8 PidNameXSharingRemoteUid Property 14](#_Toc163746765)

[2.2.4 Sharing Request Properties 14](#_Toc163746766)

[2.2.4.1 PidLidSharingResponseTime Property 14](#_Toc163746767)

[2.2.4.2 PidLidSharingResponseType Property 14](#_Toc163746768)

[2.2.5 Additional Property Constraints 15](#_Toc163746769)

[2.2.5.1 PidNameContentClass Property 15](#_Toc163746770)

[2.2.5.2 PidTagMessageClass Property 15](#_Toc163746771)

[2.2.6 Ignored Properties 15](#_Toc163746772)

[3 Protocol Details 18](#_Toc163746773)

[3.1 Client Details 18](#_Toc163746774)

[3.1.1 Abstract Data Model 18](#_Toc163746775)

[3.1.2 Timers 18](#_Toc163746776)

[3.1.3 Initialization 18](#_Toc163746777)

[3.1.4 Higher-Layer Triggered Events 18](#_Toc163746778)

[3.1.4.1 Creating a Sharing Invitation 18](#_Toc163746779)

[3.1.4.2 Creating a Sharing Request 18](#_Toc163746780)

[3.1.4.3 Creating a Sharing Response – Accept 18](#_Toc163746781)

[3.1.4.4 Creating a Sharing Response – Deny 19](#_Toc163746782)

[3.1.5 Message Processing Events and Sequencing Rules 19](#_Toc163746783)

[3.1.6 Timer Events 19](#_Toc163746784)

[3.1.7 Other Local Events 19](#_Toc163746785)

[3.2 Server Details 19](#_Toc163746786)

[3.2.1 Abstract Data Model 19](#_Toc163746787)

[3.2.2 Timers 19](#_Toc163746788)

[3.2.3 Initialization 19](#_Toc163746789)

[3.2.4 Higher-Layer Triggered Events 19](#_Toc163746790)

[3.2.5 Message Processing Events and Sequencing Rules 19](#_Toc163746791)

[3.2.6 Timer Events 20](#_Toc163746792)

[3.2.7 Other Local Events 20](#_Toc163746793)

[4 Protocol Examples 21](#_Toc163746794)

[4.1 Sending a Sharing Request 23](#_Toc163746795)

[4.2 Denying a Sharing Request 25](#_Toc163746796)

[4.3 Accepting a Sharing Request 27](#_Toc163746797)

[5 Security 31](#_Toc163746798)

[5.1 Security Considerations for Implementers 31](#_Toc163746799)

[5.2 Index of Security Parameters 31](#_Toc163746800)

[6 Appendix A: Product Behavior 32](#_Toc163746801)

[7 Change Tracking 34](#_Toc163746802)

[8 Index 35](#_Toc163746803)

# Introduction

The Sharing Message Object Protocol is used to share [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) folders between clients. This protocol extends the Message and Attachment Object Protocol, which is described in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

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

## Glossary

This document uses the following terms:

**address book**: A collection of [**Address Book objects**](#gt_4792b6d3-b01a-43f6-aca4-42fc4e79a633), each of which are contained in any number of address lists.

**Address Book object**: An entity in an [**address book**](#gt_d16f7b78-c5a6-48f4-9e0f-3b205b5598b5) that contains a set of attributes, each attribute with a set of associated values.

**big-endian**: Multiple-byte values that are byte-ordered with the most significant byte stored in the memory location with the lowest address.

**Folder object**: A messaging construct that is typically used to organize data into a hierarchy of objects containing Message objects and folder associated information (FAI) Message objects.

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

**long ID (LID)**: A 32-bit quantity that, in combination with a GUID, defines a [**named property**](#gt_e6245def-e67d-4ab2-8c7d-04863b1c1063).

**mailbox**: A message store that contains email, calendar items, and other [**Message objects**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) for a single recipient.

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

**named property**: A property that is identified by both a GUID and either a string name or a 32-bit identifier.

**named property set**: A GUID that groups related named properties into a set.

**property ID**: A 16-bit numeric identifier of a specific attribute. A property ID does not include any property type information.

**property name**: A string that, in combination with a property set, identifies a [**named property**](#gt_e6245def-e67d-4ab2-8c7d-04863b1c1063).

**recipient**: An entity that is in an address list, can receive email messages, and contains a set of attributes. Each attribute has a set of associated values.

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

**ROP request**: See ROP request buffer.

**ROP response**: See ROP response buffer.

**sharing invitation**: A type of [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) that informs a user that the user was granted access to another user's folder and provides the information necessary to locate that folder.

**Sharing Message object**: A [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) that is used to inform a recipient that they were 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**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) format.

**sharing request**: A type of [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) that is used to request access to a user's folder.

**sharing response**: A type of [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) that is used to respond to a sharing request.

**special folder**: One of a default set of [**Folder objects**](#gt_0682daa7-c1b8-419b-8a32-6048833d0b72) that can be used by an implementation to store and retrieve user data objects.

**Uniform Resource Locator (URL)**: A string of characters in a standardized format that identifies a document or resource on the World Wide Web. The format is as specified in [[RFC1738]](https://go.microsoft.com/fwlink/?LinkId=90287).

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[MS-OXCDATA] Microsoft Corporation, "[Data Structures](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8)".

[MS-OXCFOLD] Microsoft Corporation, "[Folder Object Protocol](%5BMS-OXCFOLD%5D.pdf#Section_c0f31b95c07f486c98d9535ed9705fbf)".

[MS-OXCMSG] Microsoft Corporation, "[Message and Attachment Object Protocol](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682)".

[MS-OXCPERM] Microsoft Corporation, "[Exchange Access and Operation Permissions Protocol](%5BMS-OXCPERM%5D.pdf#Section_944ddb6562494c34a46e363fcd37195e)".

[MS-OXCPRPT] Microsoft Corporation, "[Property and Stream Object Protocol](%5BMS-OXCPRPT%5D.pdf#Section_302967c881d54ec58319cccc14a76bb5)".

[MS-OXOABK] Microsoft Corporation, "[Address Book Object Protocol](%5BMS-OXOABK%5D.pdf#Section_f4cf9b4c923245069e712270de217614)".

[MS-OXOMSG] Microsoft Corporation, "[Email Object Protocol](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c)".

[MS-OXOSFLD] Microsoft Corporation, "[Special Folders Protocol](%5BMS-OXOSFLD%5D.pdf#Section_a60e9c162ba8424bb60c385a8a2837cb)".

[MS-OXPROPS] Microsoft Corporation, "[Exchange Server Protocols Master Property List](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, [https://www.rfc-editor.org/info/rfc2119](https://go.microsoft.com/fwlink/?LinkId=90317)

### Informative References

[MS-OXCROPS] Microsoft Corporation, "[Remote Operations (ROP) List and Encoding Protocol](%5BMS-OXCROPS%5D.pdf#Section_13af691127e54aa0bb75637b02d4f2ef)".

[MS-OXODLGT] Microsoft Corporation, "[Delegate Access Configuration Protocol](%5BMS-OXODLGT%5D.pdf#Section_01a89b119c434c40b1478f6a1ef5a44f)".

[MS-OXPROTO] Microsoft Corporation, "[Exchange Server Protocols System Overview](%5BMS-OXPROTO%5D.pdf#Section_734ab967e43e425babe1974af56c0283)".

## Overview

The Sharing Message Object Protocol allows a user to invite, request, accept, and deny the sharing of that user's [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3) folder. To communicate about the sharing of a folder, this protocol uses the [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc). The properties that are specific to a Sharing Message object facilitate granting access to a folder, requesting access to a folder, or responding to a request for access to a folder.

This protocol extends the Message and Attachment Object Protocol, which is described in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682), in that it defines new properties on a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) and adds constraints to the existing properties of a Message object.

## Relationship to Other Protocols

This protocol has the same dependencies as the Message and Attachment Object Protocol, as described in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682). This protocol is a peer of the Email Object Protocol, which is described in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c).

For conceptual background information and overviews of the relationships and interactions between this and other protocols, see [[MS-OXPROTO]](%5BMS-OXPROTO%5D.pdf#Section_734ab967e43e425babe1974af56c0283).

## Prerequisites/Preconditions

The Sharing Message Object Protocol has the same prerequisites and preconditions as the Message and Attachment Object Protocol, as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

## Applicability Statement

The client can use this protocol to send and respond to requests about the sharing of a folder in the user's [**mailbox**](#gt_d3ad0e15-adc9-4174-bacf-d929b57278b3).

The Sharing Message Object Protocol cannot be used to convey information about any type of object other than a [**Folder object**](#gt_0682daa7-c1b8-419b-8a32-6048833d0b72).

## Versioning and Capability Negotiation

None.

## Vendor-Extensible Fields

This protocol provides no vendor-extensibility beyond what is specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

## Standards Assignments

None.

# Messages

## Transport

The Sharing Message Object Protocol uses the same underlying transport as that used by the Message and Attachment Object Protocol, as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

## Message Syntax

A [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) 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 Email Object Protocol specified in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c) and the Message and Attachment Object Protocol specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682). How a server operates on Sharing Message objects is implementation-dependent, but the results of any such operation MUST be exposed to clients in a manner that is consistent with the Sharing Message Object Protocol.

Unless otherwise specified, a Sharing Message object adheres to all property constraints specified in [[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) and all property constraints specified in [MS-OXCMSG].

Where a property's value is specified as a hexadecimal string representation of a binary value, the characters composing the string represent the 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.

1. 00 00 00 00 DC A7 40 C8

Where a property's value is specified as a hexadecimal string representation of an integer value, the characters composing the string represent the hexadecimal digits that reflect the integer value in [**big-endian**](#gt_6f6f9e8e-5966-4727-8527-7e02fb864e7e) format. Leading "0" characters are not included. For example, the hexadecimal string representation of the integer 0x0000010B is "10B".

### Common Message Object Properties

The following properties are general properties used by a [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc).

* **PidTagNormalizedSubject** property ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.10)
* **PidTagSubjectPrefix** property ([MS-OXCMSG] section 2.2.1.9)

### Common Sharing Message Object Properties

The properties specified in section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f) through section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48) are common to all types of [**Sharing Message objects**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc).

#### PidLidSharingCapabilities Property

Type: **PtypInteger32** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingCapabilities** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.237) MUST be set to one of the following values.

| Value | Meaning |
| --- | --- |
| 0x00040290 | The [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) relates to a [**special folder**](#gt_14e25453-1647-4acb-a35e-306810c60528). |
| 0x000402B0 | The Sharing Message object does not relate to a special folder. |

#### PidNameXSharingCapabilities Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingCapabilities** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.488) contains the hexadecimal string representation of the value of the **PidLidSharingCapabilities** property (section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f)), as specified in the following table. The string does not include the leading zeros of the hexadecimal value.

| Hex value | Value of the PidNameXSharingCapabilities property |
| --- | --- |
| 0x00040290 | "40290" |
| 0x000402B0 | "402B0" |

#### PidLidSharingConfigurationUrl Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingConfigurationUrl** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.238) MUST be set to a zero-length string.

#### PidNameXSharingConfigUrl Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingConfigUrl** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.489) MUST be set to the same value as the **PidLidSharingConfigurationUrl** property (section [2.2.2.3](#Section_11fb8021cd98453faec8198309535808)).

#### PidLidSharingFlavor Property

Type: **PtypInteger32** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingFlavor** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.245) specifies the type of [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc). This property MUST be set to one of the following values.

| Value | Meaning |
| --- | --- |
| 0x00020310 | A [**sharing invitation**](#gt_8e5f2aa3-5b43-464f-b002-2acb8ffb36cb) for a [**special folder**](#gt_14e25453-1647-4acb-a35e-306810c60528). |
| 0x00000310 | A sharing invitation for a folder that is not a special folder. |
| 0x00020500 | A [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) for a special folder. |
| 0x00020710 | Both a sharing invitation for a special folder and a sharing request for the [**recipient's**](#gt_53dfe4f3-05d0-41aa-8217-ecd1962b340b) equivalent special folder. |
| 0x00025100 | A [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) that is denying a sharing request. |
| 0x00023310 | A sharing response that is accepting a sharing request. |

#### PidNameXSharingFlavor Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingFlavor** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.491) MUST be set to the hexadecimal string representation of the value of the **PidLidSharingFlavor** property (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)), as specified in the following table. The string does not include the leading zeros of the hexadecimal value.

| Hex value | Value of the PidNameXSharingFlavor property |
| --- | --- |
| 0x00020310 | "20310" |
| 0x00000310 | "310" |
| 0x00020500 | "20500" |
| 0x00020710 | "20710" |
| 0x00025100 | "25100" |
| 0x00023310 | "23310" |

#### PidLidSharingInitiatorEntryId Property

Type: **PtypBinary** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingInitiatorEntryId** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.248) MUST be set to the value of the **PidTagEntryId** property ([[MS-OXOABK]](%5BMS-OXOABK%5D.pdf#Section_f4cf9b4c923245069e712270de217614) section 2.2.3.2) for the [**Address Book object**](#gt_4792b6d3-b01a-43f6-aca4-42fc4e79a633) of the currently logged on user.

#### PidLidSharingInitiatorName Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingInitiatorName** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.249) MUST be set to the value of the **PidTagDisplayName** property ([[MS-OXOABK]](%5BMS-OXOABK%5D.pdf#Section_f4cf9b4c923245069e712270de217614) section 2.2.3.1) from the [**Address Book object**](#gt_4792b6d3-b01a-43f6-aca4-42fc4e79a633) that is identified by the **PidLidSharingInitiatorEntryId** property (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) and MAY[<1>](#Appendix_A_1" \o "Product behavior note 1) be ignored upon receipt.

#### PidLidSharingInitiatorSmtp Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingInitiatorSmtp** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.250) MUST be set to the value of the **PidTagSmtpAddress** property ([[MS-OXOABK]](%5BMS-OXOABK%5D.pdf#Section_f4cf9b4c923245069e712270de217614) section 2.2.3.21) from the [**Address Book object**](#gt_4792b6d3-b01a-43f6-aca4-42fc4e79a633) that is identified by the **PidLidSharingInitiatorEntryId** property (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) and MAY[<2>](#Appendix_A_2" \o "Product behavior note 2) be ignored upon receipt.

#### PidLidSharingLocalType Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingLocalType** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.259) MUST be set to the value of the **PidTagContainerClass** property ([[MS-OXCFOLD]](%5BMS-OXCFOLD%5D.pdf#Section_c0f31b95c07f486c98d9535ed9705fbf) section 2.2.2.2.2.3) of the folder that is to be shared. For a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81), the **PidLidSharingLocalType** property is set to the value of the **PidLidSharingLocalType** property of the associated [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773).

The valid values are listed in the following table. These values specify folder types. For details about these folder types, see ([[MS-OXOSFLD]](%5BMS-OXOSFLD%5D.pdf#Section_a60e9c162ba8424bb60c385a8a2837cb) section 2.2.1.

| Type of folder | Value |
| --- | --- |
| Calendar | "IPF.Appointment" |
| Contacts | "IPF.Contact" |
| Tasks | "IPF.Task" |
| Notes | "IPF.StickyNote" |
| Journal | "IPF.Journal" |

#### PidNameXSharingLocalType Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingLocalType** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.493) MUST be set to the same value as the **PidLidSharingLocalType** property (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)).

#### PidLidSharingProviderGuid Property

Type: **PtypBinary** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingProviderGuid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.266) MUST be set to %xAE.F0.06.00.00.00.00.00.C0.00.00.00.00.00.00.46.

#### PidNameXSharingProviderGuid Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingProviderGuid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.494) MUST be set to the hexadecimal string representation of the value of the **PidLidSharingProviderGuid** property (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)). That is, "AEF0060000000000C000000000000046".

#### PidLidSharingProviderName Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingProviderName** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.267) specifies a user-displayable name of the [**sharing provider**](#gt_145826c8-7367-43ec-8efd-dc9c3a88387e) that is identified by the **PidLidSharingProviderGuid** property (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)). This property MAY[<3>](#Appendix_A_3" \o "Product behavior note 3) be ignored upon receipt.

#### PidNameXSharingProviderName Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingProviderName** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.495) MUST be set to the same value as **PidLidSharingProviderName** (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) and MAY[<4>](#Appendix_A_4" \o "Product behavior note 4) be ignored upon receipt.

#### PidLidSharingProviderUrl Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingProviderUrl** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.268) specifies a [**Uniform Resource Locator (URL)**](#gt_433a4fb7-ef84-46b0-ab65-905f5e3a80b1) for the [**sharing provider**](#gt_145826c8-7367-43ec-8efd-dc9c3a88387e) that is identified by the **PidLidSharingProviderGuid** property (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)). This property MAY[<5>](#Appendix_A_5" \o "Product behavior note 5) be ignored upon receipt.

#### PidNameXSharingProviderUrl Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingProviderUrl** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.496) MUST be set to the same value as the **PidLidSharingProviderUrl** property (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) and MAY[<6>](#Appendix_A_6" \o "Product behavior note 6) be ignored upon receipt.

### Sharing Invitation and Response Acceptance Properties

The properties specified in section [2.2.3.1](#Section_0a3385de0db54e959cee2393fa9d9242) through section [2.2.3.8](#Section_8d8456fa205245c9b63199b76b66dd35) apply only to a [**sharing invitation**](#gt_8e5f2aa3-5b43-464f-b002-2acb8ffb36cb), which is a [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) with its **PidLidSharingFlavor** property (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) set to either 0x00020310 or 0x00000310, and to a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) acceptance, which is a Sharing Message object with its **PidLidSharingFlavor** property set to 0x0023310. For all other types of Sharing Message objects, these properties SHOULD NOT[<7>](#Appendix_A_7" \o "Product behavior note 7) be set and MUST be ignored upon receipt.

#### PidLidSharingRemoteName Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingRemoteName** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.277) MUST be set to the value of the **PidTagDisplayName** property ([[MS-OXCFOLD]](%5BMS-OXCFOLD%5D.pdf#Section_c0f31b95c07f486c98d9535ed9705fbf) section 2.2.2.2.2.5) of the folder that is being shared.

#### PidNameXSharingRemoteName Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingRemoteName** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.497) MUST be set to the same value as the **PidLidSharingRemoteName** property (section [2.2.3.1](#Section_0a3385de0db54e959cee2393fa9d9242)).

#### PidLidSharingRemoteStoreUid Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingRemoteStoreUid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.280) MUST be set to the hexadecimal string representation of the value of the **PidTagStoreEntryId** property ([MS-OXPROPS] section 2.1029) of the folder that is being shared.

#### PidNameXSharingRemoteStoreUid Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingRemoteStoreUid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.499) MUST be set to the same value as **PidLidSharingRemoteStoreUid** (section [2.2.3.3](#Section_8019976ed201427c83a20a210ccbc524)).

#### PidLidSharingRemoteType Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingRemoteType** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.281) MUST be set to the same value as the **PidLidSharingLocalType** property (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) and MAY[<8>](#Appendix_A_8" \o "Product behavior note 8) be ignored upon receipt.

#### PidNameXSharingRemoteType Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingRemoteType** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.500) MUST be set to the same value as **PidLidSharingRemoteType** (section [2.2.3.5](#Section_be24839a2e474900b79db5bab7909cbd)) and MAY[<9>](#Appendix_A_9" \o "Product behavior note 9) be ignored.

#### PidLidSharingRemoteUid Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingRemoteUid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.282) MUST be set to the hexadecimal string representation of the value of the **PidTagEntryId** property ([[MS-OXCPERM]](%5BMS-OXCPERM%5D.pdf#Section_944ddb6562494c34a46e363fcd37195e) section 2.2.4) of the folder that is being shared.

#### PidNameXSharingRemoteUid Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameXSharingRemoteUid** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.501) MUST be set to the same value as the **PidLidSharingRemoteUid** property (section [2.2.3.7](#Section_d141e1c36db54584b54f418af96b8c4b)).

### Sharing Request Properties

The properties specified in sections [2.2.4.1](#Section_2121e3976fe846e0a5212f8a5b4876c6) and [2.2.4.2](#Section_23a56bbb95134b398ea62826fb0d733a) apply only to a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) to which the user has responded. A sharing request has its **PidLidSharingFlavor** property (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) set to either 0x00020500 or 0x00020710. For all other types of [**Sharing Message objects**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc), the properties specified in sections 2.2.4.1 and 2.2.4.2 MUST NOT be set.

#### PidLidSharingResponseTime Property

Type: **PtypTime** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingResponseTime** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.285) specifies the time at which the [**recipient**](#gt_53dfe4f3-05d0-41aa-8217-ecd1962b340b) of the [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) sent a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81).

#### PidLidSharingResponseType Property

Type: **PtypInteger32** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidLidSharingResponseType** property ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.286) specifies the type of [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) with which the [**recipient**](#gt_53dfe4f3-05d0-41aa-8217-ecd1962b340b) of the [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) responded. This property MUST be set to one of the following values.

| Value  | Meaning |
| --- | --- |
| 0x00000001 | Acceptance of the sharing request  |
| 0x00000002 | Denial of the sharing request  |

### Additional Property Constraints

The properties specified in sections [2.2.5.1](#Section_9dbb7f74d70b4d52b3f228746d54fc31) and [2.2.5.2](#Section_dd524d2cc252460483c1b5bf1ea09781) have additional constraints beyond what is specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682). These properties apply to all types of [**Sharing Message objects**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc).

#### PidNameContentClass Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidNameContentClass** property ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.48) MUST be set to "Sharing".

#### PidTagMessageClass Property

Type: **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1)

The **PidTagMessageClass** property ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.3) MUST be set to "IPM.Sharing" or a value that begins with "IPM.Sharing.".

### Ignored Properties

The following properties SHOULD NOT[<10>](#Appendix_A_10" \o "Product behavior note 10) be set and MUST be ignored upon receipt:

* **PidLidSharingAnonymity** ([[MS-OXPROPS]](%5BMS-OXPROPS%5D.pdf#Section_f6ab1613aefe447da49c18217230b148) section 2.234)
* **PidLidSharingBindingEntryId** ([MS-OXPROPS] section 2.235)
* **PidLidSharingBrowseUrl** ([MS-OXPROPS] section 2.236)
* **PidNameXSharingBrowseUrl** ([MS-OXPROPS] section 2.487)
* **PidLidSharingDataRangeEnd** ([MS-OXPROPS] section 2.239)
* **PidLidSharingDataRangeStart** ([MS-OXPROPS] section 2.240)
* **PidLidSharingDetail** ([MS-OXPROPS] section 2.241)
* **PidLidSharingExtensionXml** ([MS-OXPROPS] section 2.242)
* **PidNameXSharingExendedCaps** ([MS-OXPROPS] section 2.490)
* **PidLidSharingFilter** ([MS-OXPROPS] section 2.243)
* **PidLidSharingFlags** ([MS-OXPROPS] section 2.244)
* **PidLidSharingFolderEntryId** ([MS-OXPROPS] section 2.246)
* **PidLidSharingIndexEntryId** ([MS-OXPROPS] section 2.247)
* **PidLidSharingInstanceGuid** ([MS-OXPROPS] section 2.251)
* **PidNameXSharingInstanceGuid** ([MS-OXPROPS] section 2.492)
* **PidLidSharingLastAutoSyncTime** ([MS-OXPROPS] section 2.252)
* **PidLidSharingLastSyncTime** ([MS-OXPROPS] section 2.253)
* **PidLidSharingLocalComment** ([MS-OXPROPS] section 2.254)
* **PidLidSharingLocalLastModificationTime** ([MS-OXPROPS] section 2.255)
* **PidLidSharingLocalName** ([MS-OXPROPS] section 2.256)
* **PidLidSharingLocalPath** ([MS-OXPROPS] section 2.257)
* **PidLidSharingLocalStoreUid** ([MS-OXPROPS] section 2.258)
* **PidLidSharingLocalUid** ([MS-OXPROPS] section 2.260)
* **PidLidSharingOriginalMessageEntryId** ([MS-OXPROPS] section 2.261)
* **PidLidSharingParentBindingEntryId** ([MS-OXPROPS] section 2.262)
* **PidLidSharingParticipants** ([MS-OXPROPS] section 2.263)
* **PidLidSharingPermissions** ([MS-OXPROPS] section 2.264)
* **PidLidSharingProviderExtension** ([MS-OXPROPS] section 2.265)
* **PidLidSharingRangeEnd** ([MS-OXPROPS] section 2.269)
* **PidLidSharingRangeStart** ([MS-OXPROPS] section 2.270)
* **PidLidSharingReciprocation** ([MS-OXPROPS] section 2.271)
* **PidLidSharingRemoteByteSize** ([MS-OXPROPS] section 2.272)
* **PidLidSharingRemoteComment** ([MS-OXPROPS] section 2.273)
* **PidLidSharingRemoteCrc** ([MS-OXPROPS] section 2.274)
* **PidLidSharingRemoteLastModificationTime** ([MS-OXPROPS] section 2.275)
* **PidLidSharingRemoteMessageCount** ([MS-OXPROPS] section 2.276)
* **PidLidSharingRemotePass** ([MS-OXPROPS] section 2.278)
* **PidLidSharingRemotePath** ([MS-OXPROPS] section 2.279)
* **PidNameXSharingRemotePath** ([MS-OXPROPS] section 2.498)
* **PidLidSharingRemoteUser** ([MS-OXPROPS] section 2.283)
* **PidLidSharingRemoteVersion** ([MS-OXPROPS] section 2.284)
* **PidLidSharingRoamLog** ([MS-OXPROPS] section 2.287)
* **PidLidSharingStart** ([MS-OXPROPS] section 2.288)
* **PidLidSharingStatus** ([MS-OXPROPS] section 2.289)
* **PidLidSharingStop** ([MS-OXPROPS] section 2.290)
* **PidLidSharingSyncFlags** ([MS-OXPROPS] section 2.291)
* **PidLidSharingSyncInterval** ([MS-OXPROPS] section 2.292)
* **PidLidSharingTimeToLive** ([MS-OXPROPS] section 2.293)
* **PidLidSharingTimeToLiveAuto** ([MS-OXPROPS] section 2.294)
* **PidLidSharingWorkingHoursDays** ([MS-OXPROPS] section 2.295)
* **PidLidSharingWorkingHoursEnd** ([MS-OXPROPS] section 2.296)
* **PidLidSharingWorkingHoursStart** ([MS-OXPROPS] section 2.297)
* **PidLidSharingWorkingHoursTimeZone** ([MS-OXPROPS] section 2.298)

# Protocol Details

## Client Details

The client creates and manipulates a [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) and in all other ways operates within the client role, as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

### Abstract Data Model

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

A [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) extends the [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf). In all other ways, the abstract data model of this protocol does not differ from that specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 3.1.1.

### Timers

None.

### Initialization

None.

### Higher-Layer Triggered Events

#### Creating a Sharing Invitation

When a user creates a [**sharing invitation**](#gt_8e5f2aa3-5b43-464f-b002-2acb8ffb36cb), the client creates a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) and sets properties in accordance with the requirements in section [2.2.1](#Section_9faef68b8bba4f0db88062c07bdb97ce) through section [2.2.3](#Section_e90b680e14984387a95a3c62de81ff56) and section [2.2.5](#Section_c86f83fe11544c2e93d5ad333b80d9af). The client then addresses and sends the message as specified in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c).

#### Creating a Sharing Request

When a user creates a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773), the client creates a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) and sets properties in accordance with the requirements in sections [2.2.1](#Section_9faef68b8bba4f0db88062c07bdb97ce), [2.2.2](#Section_11d5616b8d234fcb8c751e4381d6cad1), and [2.2.5](#Section_c86f83fe11544c2e93d5ad333b80d9af). The client then addresses and sends the message as specified in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c).

#### Creating a Sharing Response – Accept

When a user creates a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) to accept a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773), the client creates a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) and sets properties in accordance with the requirements in section [2.2.1](#Section_9faef68b8bba4f0db88062c07bdb97ce) through section [2.2.3](#Section_e90b680e14984387a95a3c62de81ff56) and section [2.2.5](#Section_c86f83fe11544c2e93d5ad333b80d9af). The client addresses and sends the response as specified in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c).

The client then opens the sharing request as specified in [MS-OXCMSG] and sets the properties in accordance with the requirements in section [2.2.4](#Section_6e48d5273aa449b28a3c71f07ff30281) to indicate that the request was accepted. The client saves the sharing request as specified in [MS-OXCMSG].

The client can determine the [**special folder**](#gt_14e25453-1647-4acb-a35e-306810c60528) that is being requested for sharing by examining the **PidLidSharingLocalType** property (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) of the sharing request.

#### Creating a Sharing Response – Deny

When a user creates a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) to deny a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773), the client creates a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) and sets properties in accordance with the requirements in sections [2.2.1](#Section_9faef68b8bba4f0db88062c07bdb97ce), [2.2.2](#Section_11d5616b8d234fcb8c751e4381d6cad1), and [2.2.5](#Section_c86f83fe11544c2e93d5ad333b80d9af). The client addresses and sends the response as specified in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c).

The client then opens the sharing request as specified in [MS-OXCMSG] and sets the properties in accordance with the requirements in section [2.2.4](#Section_6e48d5273aa449b28a3c71f07ff30281) to indicate that the request was denied. The client saves the sharing request as specified in [MS-OXCMSG].

### Message Processing Events and Sequencing Rules

None.

### Timer Events

None.

### Other Local Events

None.

## Server Details

The server processes a client's requests regarding a [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) and in all other ways operates within the server role as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

### Abstract Data Model

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

A [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc) extends the [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf). In all other ways, the abstract data model of this protocol does not differ from that specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 3.2.1.

### Timers

None.

### Initialization

None.

### Higher-Layer Triggered Events

None.

### Message Processing Events and Sequencing Rules

The server responds to client requests as specified in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 3.2.5.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

Kendall Keil wants to see Ryan Gregg's calendar [**special folder**](#gt_14e25453-1647-4acb-a35e-306810c60528). Kendall sends a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) 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. For details about the [**remote operations (ROPs)**](#gt_3369fdd6-36f8-4a62-9cd7-2738ffb5048f) used in this example, see [[MS-OXCPRPT]](%5BMS-OXCPRPT%5D.pdf#Section_302967c881d54ec58319cccc14a76bb5) and [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

Before manipulating [**Sharing Message objects**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc), the client sends a **RopGetPropertyIdsFromNames** [**ROP request**](#gt_edeadb0f-6571-49b7-8cce-5dc77b0793d6) ([[MS-OXCROPS]](%5BMS-OXCROPS%5D.pdf#Section_13af691127e54aa0bb75637b02d4f2ef) section 2.2.8.1) to ask the server to map each [**named property**](#gt_e6245def-e67d-4ab2-8c7d-04863b1c1063) to a [**property ID**](#gt_0b28d5bf-a1bb-436d-a721-34e2cfae489b). The following table lists each named property with its [**named property set**](#gt_9db80084-155b-402e-bf20-4edaff450046) GUID and its [**long ID (LID)**](#gt_7f6fbfc0-6da8-4eb4-8099-8f5efbfe5fbe) or [**property name**](#gt_dcd670df-c295-466f-b681-d7d91014040a). The server's **RopGetPropertyIdsFromNames** [**ROP response**](#gt_b1119977-cf72-4ae9-bd68-d169cec0b985) provides the corresponding property IDs, as shown in the subsequent table.

| Named property | Property set GUID | LID or property name |
| --- | --- | --- |
| **PidNameContentClass** (section [2.2.5.1](#Section_9dbb7f74d70b4d52b3f228746d54fc31)) | {00020386-0000-0000-c000-000000000046} | Content-class |
| **PidLidSharingProviderGuid** (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)) | {00062040-0000-0000-C000-000000000046} | 0x00008A01 |
| **PidNameXSharingProviderGuid** (section [2.2.2.13](#Section_8fc95310c7af468da1405c28c3fd276f)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Provider-GUID |
| **PidLidSharingProviderName** (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) | {00062040-0000-0000-C000-000000000046} | 0x00008A02 |
| **PidNameXSharingProviderName** (section [2.2.2.15](#Section_3ad9244b293249439d81aa306dffae4b)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Provider-Name |
| **PidLidSharingProviderUrl** (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) | {00062040-0000-0000-C000-000000000046} | 0x00008A03 |
| **PidNameXSharingProviderUrl** (section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Provider-URL |
| **PidLidSharingConfigurationUrl** (section [2.2.2.3](#Section_11fb8021cd98453faec8198309535808)) | {00062040-0000-0000-C000-000000000046} | 0x00008A24 |
| **PidNameXSharingConfigUrl** (section [2.2.2.4](#Section_4e05ae3067ce41dbaf08af11c52d5354)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Config-URL |
| **PidLidSharingFlavor** (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) | {00062040-0000-0000-C000-000000000046} | 0x00008A18 |
| **PidNameXSharingFlavor** (section [2.2.2.6](#Section_e0921aaa81d541f7b3e1ea33633ba119)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Flavor |
| **PidLidSharingCapabilities** (section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f)) | {00062040-0000-0000-C000-000000000046} | 0x00008A17 |
| **PidNameXSharingCapabilities** (section [2.2.2.2](#Section_e03acb90ac2d42749da621c39b014a9e)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Capabilities |
| **PidLidSharingLocalType** (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) | {00062040-0000-0000-C000-000000000046} | 0x00008A14 |
| **PidNameXSharingLocalType** (section [2.2.2.11](#Section_d2877c674b14404981c016783fc5a994)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Local-Type |
| **PidLidSharingInitiatorEntryId** (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) | {00062040-0000-0000-C000-000000000046} | 0x00008A09 |
| **PidLidSharingInitiatorName** (section [2.2.2.8](#Section_ec47213c77cd4ba4baeccef936661914)) | {00062040-0000-0000-C000-000000000046} | 0x00008A07 |
| **PidLidSharingInitiatorSmtp** (section [2.2.2.9](#Section_44a44336d6cf4930b08615722e09cb40)) | {00062040-0000-0000-C000-000000000046} | 0x00008A08 |
| **PidLidSharingRemoteName** (section [2.2.3.1](#Section_0a3385de0db54e959cee2393fa9d9242)) | {00062040-0000-0000-C000-000000000046} | 0x00008A05 |
| **PidNameXSharingRemoteName** (section [2.2.3.2](#Section_7a8bdb439a7b4d458df82eb411021069)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Remote-Name |
| **PidLidSharingRemoteType** (section [2.2.3.5](#Section_be24839a2e474900b79db5bab7909cbd)) | {00062040-0000-0000-C000-000000000046} | 0x00008A1D |
| **PidNameXSharingRemoteType** (section [2.2.3.6](#Section_61a91feecb114305b61af7894635de42)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Remote-Type |
| **PidLidSharingRemoteUid** (section [2.2.3.7](#Section_d141e1c36db54584b54f418af96b8c4b)) | {00062040-0000-0000-C000-000000000046} | 0x00008A06 |
| **PidNameXSharingRemoteUid** (section [2.2.3.8](#Section_8d8456fa205245c9b63199b76b66dd35)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Remote-Uid |
| **PidLidSharingRemoteStoreUid** (section [2.2.3.3](#Section_8019976ed201427c83a20a210ccbc524)) | {00062040-0000-0000-C000-000000000046} | 0x00008A48 |
| **PidNameXSharingRemoteStoreUid** (section [2.2.3.4](#Section_a73a0a098fe443648c12371aa6bebadb)) | {00020386-0000-0000-C000-000000000046} | X-Sharing-Remote-Store-Uid |
| **PidLidSharingResponseType** (section [2.2.4.2](#Section_23a56bbb95134b398ea62826fb0d733a)) | {00062040-0000-0000-C000-000000000046} | 0x00008A27 |
| **PidLidSharingResponseTime** (section [2.2.4.1](#Section_2121e3976fe846e0a5212f8a5b4876c6)) | {00062040-0000-0000-C000-000000000046} | 0x00008A28 |

The server sends a **RopGetPropertyIdsFromNames** ROP response with the following property IDs, which will be used in the examples that follow. (The actual property IDs are at the discretion of the server.)

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

## Sending a Sharing Request

Kendall's client creates a [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) by using the **RopCreateMessage** [**ROP**](#gt_3369fdd6-36f8-4a62-9cd7-2738ffb5048f) ([[MS-OXCROPS]](%5BMS-OXCROPS%5D.pdf#Section_13af691127e54aa0bb75637b02d4f2ef) section 2.2.6.2). The server returns a success code and a [**handle**](#gt_5044babb-08e3-4bb9-bc12-fe8f542b05ee) to a [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf).

The client then sets the properties on the sharing request by using the **RopSetProperties** ROP ([MS-OXCROPS] section 2.2.8.6), as shown in the following table.

| Property | Property ID | Property type | Value |
| --- | --- | --- | --- |
| **PidTagMessageClass** ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.3) | 0x001A | **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1) | "IPM.Sharing" |
| **PidNameContentClass** (section [2.2.5.1](#Section_9dbb7f74d70b4d52b3f228746d54fc31)) | 0x806D | **PtypString** | "Sharing" |
| **PidTagNormalizedSubject** ([MS-OXCMSG] section 2.2.1.10) | 0x0E1D | **PtypString** | "Sharing request: calendar" |
| **PidTagSubjectPrefix** ([MS-OXCMSG] section 2.2.1.9) | 0x003D | **PtypString** | "" (a zero-length string) |
| **PidLidSharingProviderGuid** (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)) | 0x8243 | **PtypBinary** ([MS-OXCDATA] section 2.11.1) | \* |
| **PidNameXSharingProviderGuid** (section [2.2.2.13](#Section_8fc95310c7af468da1405c28c3fd276f)) | 0x836F | **PtypString** | "AEF0060000000000C000000000000046" |
| **PidLidSharingProviderName** (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) | 0x8244 | **PtypString** | "Microsoft Exchange" |
| **PidNameXSharingProviderName** (section [2.2.2.15](#Section_3ad9244b293249439d81aa306dffae4b)) | 0x8370 | **PtypString** | "Microsoft Exchange" |
| **PidLidSharingProviderUrl** (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) | 0x8245 | **PtypString** | "HTTP://www.microsoft.com/exchange" |
| **PidNameXSharingProviderUrl** (section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48)) | 0x8371 | **PtypString** | "HTTP://www.microsoft.com/exchange" |
| **PidLidSharingConfigurationUrl** (section [2.2.2.3](#Section_11fb8021cd98453faec8198309535808)) | 0x83D0 | **PtypString** | "" (a zero-length string) |
| **PidNameXSharingConfigUrl** (section [2.2.2.4](#Section_4e05ae3067ce41dbaf08af11c52d5354)) | 0x8377 | **PtypString** | "" (a zero-length string) |
| **PidLidSharingFlavor** (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) | 0x823D | **PtypInteger32** ([MS-OXCDATA] section 2.11.1) | 0x00020500 |
| **PidNameXSharingFlavor** (section [2.2.2.6](#Section_e0921aaa81d541f7b3e1ea33633ba119)) | 0x836D | **PtypString** | "20500" |
| **PidLidSharingCapabilities** (section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f)) | 0x823C | **PtypInteger32** | 0x00040290 |
| **PidNameXSharingCapabilities** (section [2.2.2.2](#Section_e03acb90ac2d42749da621c39b014a9e)) | 0x836C | **PtypString** | "40290" |
| **PidLidSharingLocalType** (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) | 0x824F | **PtypString** | "IPF.Appointment" |
| **PidNameXSharingLocalType** (section [2.2.2.11](#Section_d2877c674b14404981c016783fc5a994)) | 0x8379 | **PtypString** | "IPF.Appointment" |
| **PidLidSharingInitiatorEntryId** (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) | 0x8249 | **PtypBinary** | \*\* |
| **PidLidSharingInitiatorName** (section [2.2.2.8](#Section_ec47213c77cd4ba4baeccef936661914)) | 0x8029 | **PtypString** | "user12" |
| **PidLidSharingInitiatorSmtp** (section [2.2.2.9](#Section_44a44336d6cf4930b08615722e09cb40)) | 0x8248 | **PtypString** | "user12@fabrikam.com" |

\* The following data shows the value of the **PidLidSharingProviderGuid** property. The size of the value is 16 bytes.

1. 0000: AE F0 06 00 00 00 00 00 C0 00 00 00 00 00 00 46 ...............F

\*\* The following data shows the value of the **PidLidSharingInitiatorEntryId** property. The size of the value is 125 bytes.

1. 0000: 00 00 00 00 DC A7 40 C8 C0 42 10 1A B4 B9 08 00 ......@..B......
2. 0010: 2B 2F E1 82 01 00 00 00 00 00 00 00 2F 6F 3D 46 +/........../o=F
3. 0020: 69 72 73 74 20 4F 72 67 61 6E 69 7A 61 74 69 6F irst Organizatio
4. 0030: 6E 2F 6F 75 3D 45 78 63 68 61 6E 67 65 20 41 64 n/ou=Exchange Ad
5. 0040: 6D 69 6E 69 73 74 72 61 74 69 76 65 20 47 72 6F ministrative Gro
6. 0050: 75 70 20 28 46 59 44 49 42 4F 48 46 32 33 53 50 up (FYDIBOHF23SP
7. 0060: 44 4C 54 29 2F 63 6E 3D 52 65 63 69 70 69 65 6E DLT)/cn=Recipien
8. 0070: 74 73 2F 63 6E 3D 75 73 65 72 31 32 00 ts/cn=user12.

After addressing the message as described in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c), the client sends the message to Ryan by using the **RopSubmitMessage** ROP ([MS-OXCROPS] section 2.2.7.1) and then releases the Message object by using the **RopRelease** ROP ([MS-OXCROPS] section 2.2.15.3).

## Denying a Sharing Request

Ryan wants to send a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) denying the [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) that is described in section [4.1](#Section_9a19bac049ca457ea3bcb5a3bf1b8b08). The client creates a new [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) by using the **RopCreateMessage** [**ROP**](#gt_3369fdd6-36f8-4a62-9cd7-2738ffb5048f) ([[MS-OXCROPS]](%5BMS-OXCROPS%5D.pdf#Section_13af691127e54aa0bb75637b02d4f2ef) section 2.2.6.2). The server returns a success code and a [**handle**](#gt_5044babb-08e3-4bb9-bc12-fe8f542b05ee) to a Message object.

The client then sets the properties on the sharing response by using the **RopSetProperties** ROP ([MS-OXCROPS] section 2.2.8.6), as shown in the following table.

| Property | Property ID | Property type | Value |
| --- | --- | --- | --- |
| **PidTagMessageClass** ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.3) | 0x001A | **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1) | "IPM.Sharing" |
| **PidNameContentClass** (section [2.2.5.1](#Section_9dbb7f74d70b4d52b3f228746d54fc31)) | 0x806d | **PtypString** | "Sharing" |
| **PidTagNormalizedSubject** ([MS-OXCMSG] section 2.2.1.10) | 0x0E1D | **PtypString** | "Denied: sharing request: calendar" |
| **PidTagSubjectPrefix** ([MS-OXCMSG] section 2.2.1.9) | 0x003D | **PtypString** | "" (a zero-length string) |
| **PidLidSharingProviderGuid** (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)) | 0x8243 | **PtypBinary** ([MS-OXCDATA] section 2.11.1) | \* |
| **PidNameXSharingProviderGuid** (section [2.2.2.13](#Section_8fc95310c7af468da1405c28c3fd276f)) | 0x836F | **PtypString** | "AEF0060000000000C000000000000046" |
| **PidLidSharingProviderName** (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) | 0x8244 | **PtypString** | "Microsoft Exchange" |
| **PidNameXSharingProviderName** (section [2.2.2.15](#Section_3ad9244b293249439d81aa306dffae4b)) | 0x8370 | **PtypString** | "Microsoft Exchange" |
| **PidLidSharingProviderUrl** (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) | 0x8245 | **PtypString** | "HTTP://www.microsoft.com/exchange" |
| **PidNameXSharingProviderUrl** (section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48)) | 0x8371 | **PtypString** | "HTTP://www.microsoft.com/exchange" |
| **PidLidSharingConfigurationUrl** (section [2.2.2.3](#Section_11fb8021cd98453faec8198309535808)) | 0x83D0 | **PtypString** | "" (a zero-length string) |
| **PidNameXSharingConfigUrl** (section [2.2.2.4](#Section_4e05ae3067ce41dbaf08af11c52d5354)) | 0x8377 | **PtypString** | "" (a zero-length string) |
| **PidLidSharingFlavor** (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) | 0x823D | **PtypInteger32** ([MS-OXCDATA] section 2.11.1) | 0x00025100 |
| **PidNameXSharingFlavor** (section [2.2.2.6](#Section_e0921aaa81d541f7b3e1ea33633ba119)) | 0x836D | **PtypString** | "25100" |
| **PidLidSharingCapabilities** (section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f)) | 0x823C | **PtypInteger32** | 0x00040290 |
| **PidNameXSharingCapabilities** (section [2.2.2.2](#Section_e03acb90ac2d42749da621c39b014a9e)) | 0x836C | **PtypString** | "40290" |
| **PidLidSharingLocalType** (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) | 0x824F | **PtypString** | "IPF.Appointment" |
| **PidNameXSharingLocalType** (section [2.2.2.11](#Section_d2877c674b14404981c016783fc5a994)) | 0x8379 | **PtypString** | "IPF.Appointment" |
| **PidLidSharingInitiatorEntryId** (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) | 0x8249 | **PtypBinary** | \*\* |
| **PidLidSharingInitiatorName** (section [2.2.2.8](#Section_ec47213c77cd4ba4baeccef936661914)) | 0x8029 | **PtypString** | "user12" |
| **PidLidSharingInitiatorSmtp** (section [2.2.2.9](#Section_44a44336d6cf4930b08615722e09cb40)) | 0x8248 | **PtypString** | "user12@fabrikam.com" |

\* The following data shows the value of the **PidLidSharingProviderGuid** property. The size of the value is 16 bytes.

1. 0000: AE F0 06 00 00 00 00 00 C0 00 00 00 00 00 00 46 ...............F

\*\* The following data shows the value of the **PidLidSharingInitiatorEntryId** property. The size of the value is 125 bytes.

1. 0000: 00 00 00 00 DC A7 40 C8 C0 42 10 1A B4 B9 08 00 ......@..B......
2. 0010: 2B 2F E1 82 01 00 00 00 00 00 00 00 2F 6F 3D 46 +/........../o=F
3. 0020: 69 72 73 74 20 4F 72 67 61 6E 69 7A 61 74 69 6F irst Organizatio
4. 0030: 6E 2F 6F 75 3D 45 78 63 68 61 6E 67 65 20 41 64 n/ou=Exchange Ad
5. 0040: 6D 69 6E 69 73 74 72 61 74 69 76 65 20 47 72 6F ministrative Gro
6. 0050: 75 70 20 28 46 59 44 49 42 4F 48 46 32 33 53 50 up (FYDIBOHF23SP
7. 0060: 44 4C 54 29 2F 63 6E 3D 52 65 63 69 70 69 65 6E DLT)/cn=Recipien
8. 0070: 74 73 2F 63 6E 3D 75 73 65 72 31 32 00 ts/cn=user12.

After addressing the message as described in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c), the client sends the message to Kendall by using the **RopSubmitMessage** ROP ([MS-OXCROPS] section 2.2.7.1) and then releases the Message object by using the **RopRelease** ROP ([MS-OXCROPS] section 2.2.15.3).

Then, the client opens the sharing request by using the **RopOpenMessage** ROP ([MS-OXCROPS] section 2.2.6.1). The server returns a success code and a handle to the Message object.

The client sets properties on the sharing request to indicate that the client has sent a sharing response denying the request and to specify the time at which the response was sent, as shown in the following table. The client sets these properties by using the **RopSetProperties** ROP ([MS-OXCROPS] section 2.2.8.6).

| Property | Property ID | Property type | Data | Value |
| --- | --- | --- | --- | --- |
| **PidLidSharingResponseType** (section [2.2.4.2](#Section_23a56bbb95134b398ea62826fb0d733a)) | 0x83E4 | **PtypInteger32** ([MS-OXCDATA] section 2.11.1) | 02 00 00 00 | 0x00000002 |
| **PidLidSharingResponseTime** (section [2.2.4.1](#Section_2121e3976fe846e0a5212f8a5b4876c6)) | 0x83E3 | **PtypTime** ([MS-OXCDATA] section 2.11.1) | 00 9A C2 CF E3 7F C8 01 | 2008/03/06 23:43:00.000 |

The client saves the changes by using the **RopSaveChangesMessage** ROP ([MS-OXCROPS] section 2.2.6.3) and releases the Message object by using the **RopRelease** ROP.

## Accepting a Sharing Request

Ryan wants to send a [**sharing response**](#gt_a2603bef-3571-44e5-a926-912e3c0e2e81) accepting the [**sharing request**](#gt_4662a875-26d8-48c0-804b-fca318829773) that is described in section [4.1](#Section_9a19bac049ca457ea3bcb5a3bf1b8b08). The client creates a new [**Message object**](#gt_b6c15d0c-d992-421d-ba96-99d3b63894cf) by using the **RopCreateMessage** [**ROP**](#gt_3369fdd6-36f8-4a62-9cd7-2738ffb5048f) ([[MS-OXCROPS]](%5BMS-OXCROPS%5D.pdf#Section_13af691127e54aa0bb75637b02d4f2ef) section 2.2.6.2). The server returns a success code and a [**handle**](#gt_5044babb-08e3-4bb9-bc12-fe8f542b05ee) to a Message object.

The client sets the properties on a sharing response by using the **RopSetProperties** ROP([MS-OXCROPS] section 2.2.8.6), as shown in the following table.

| Property  | Property ID  | Property type  | Value  |
| --- | --- | --- | --- |
| **PidTagMessageClass** ([[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682) section 2.2.1.3) | 0x001A | **PtypString** ([[MS-OXCDATA]](%5BMS-OXCDATA%5D.pdf#Section_1afa0cd9b1a04520b623bf15030af5d8) section 2.11.1) | "IPM.Sharing" |
| **PidNameContentClass** (section [2.2.5.1](#Section_9dbb7f74d70b4d52b3f228746d54fc31)) | 0x806d | **PtypString**  | "Sharing" |
| **PidTagNormalizedSubject** ([MS-OXCMSG] section 2.2.1.10) | 0x0E1D | **PtypString**  | "Allowed: sharing request: calendar" |
| **PidTagSubjectPrefix** ([MS-OXCMSG] section 2.2.1.9) | 0x003D | **PtypString**  | "" (a zero-length string) |
| **PidLidSharingProviderGuid** (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)) | 0x8243 | **PtypBinary**  | \* |
| **PidNameXSharingProviderGuid** (section [2.2.2.13](#Section_8fc95310c7af468da1405c28c3fd276f)) | 0x836F | **PtypString**  | "AEF0060000000000C0000000​00000046" |
| **PidLidSharingProviderName** (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) | 0x8244 | **PtypString**  | "Microsoft Exchange" |
| **PidNameXSharingProviderName** (section [2.2.2.15](#Section_3ad9244b293249439d81aa306dffae4b)) | 0x8370 | **PtypString**  | "Microsoft Exchange" |
| **PidLidSharingProviderUrl** (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) | 0x8245 | **PtypString**  | "HTTP://www.microsoft.com/exchange" |
| **PidNameXSharingProviderUrl** (section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48)) | 0x8371 | **PtypString**  | "HTTP://www.microsoft.com/exchange" |
| **PidLidSharingConfigurationUrl** (section [2.2.2.3](#Section_11fb8021cd98453faec8198309535808)) | 0x83D0 | **PtypString**  | "" (a zero-length string) |
| **PidNameXSharingConfigUrl** (section [2.2.2.4](#Section_4e05ae3067ce41dbaf08af11c52d5354)) | 0x8377 | **PtypString**  | "" (a zero-length string) |
| **PidLidSharingFlavor** (section [2.2.2.5](#Section_8204b84ccd7b4db2b617d4c9243f2a74)) | 0x823D | **PtypInteger32** ([MS-OXCDATA] section 2.11.1) | 0x00023310 |
| **PidNameXSharingFlavor** (section [2.2.2.6](#Section_e0921aaa81d541f7b3e1ea33633ba119)) | 0x836D | **PtypString**  | "23310" |
| **PidLidSharingCapabilities** (section [2.2.2.1](#Section_6398ef10dee14521b1b0d4a0af94739f)) | 0x823C | **PtypInteger32**  | 0x00040290 |
| **PidNameXSharingCapabilities** (section [2.2.2.2](#Section_e03acb90ac2d42749da621c39b014a9e)) | 0x836C | **PtypString**  | "40290" |
| **PidLidSharingLocalType** (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) | 0x824F | **PtypString**  | "IPF.Appointment" |
| **PidNameXSharingLocalType** (section [2.2.2.11](#Section_d2877c674b14404981c016783fc5a994)) | 0x8379 | **PtypString**  | "IPF.Appointment" |
| **PidLidSharingInitiatorEntryId** (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)) | 0x8249 | **PtypBinary** ([MS-OXCDATA] section 2.11.1) | \*\* |
| **PidLidSharingInitiatorName** (section [2.2.2.8](#Section_ec47213c77cd4ba4baeccef936661914)) | 0x8029 | **PtypString**  | "user10" |
| **PidLidSharingInitiatorSmtp** (section [2.2.2.9](#Section_44a44336d6cf4930b08615722e09cb40)) | 0x8248 | **PtypString**  | "user10@fabrikam.com" |
| **PidLidSharingRemoteName** (section [2.2.3.1](#Section_0a3385de0db54e959cee2393fa9d9242)) | 0x8026 | **PtypString**  | "Calendar" |
| **PidNameXSharingRemoteName** (section [2.2.3.2](#Section_7a8bdb439a7b4d458df82eb411021069)) | 0x8373 | **PtypString**  | "Calendar" |
| **PidLidSharingRemoteType** (section [2.2.3.5](#Section_be24839a2e474900b79db5bab7909cbd)) | 0x8247 | **PtypString**  | "IPF.Appointment" |
| **PidNameXSharingRemoteType** (section [2.2.3.6](#Section_61a91feecb114305b61af7894635de42)) | 0x8376 | **PtypString**  | "IPF.Appointment" |
| **PidLidSharingRemoteUid** (section [2.2.3.7](#Section_d141e1c36db54584b54f418af96b8c4b)) | 0x8246 | **PtypString**  | "00000000B0FCA4F63C21A642​BD4B8F1BDBA04BC60100612A​7BAB49F64E4B9C52DBFB5A53​AA1C000000F04EEF0000" |
| **PidNameXSharingRemoteUid** (section [2.2.3.8](#Section_8d8456fa205245c9b63199b76b66dd35)) | 0x8374 | **PtypString**  | "00000000B0FCA4F63C21A642B​D4B8F1BDBA04BC60100612A7​BAB49F64E4B9C52DBFB5A53A​A1C000000F04EEF0000" |
| **PidLidSharingRemoteStoreUid** (section [2.2.3.3](#Section_8019976ed201427c83a20a210ccbc524)) | 0x83E1 | **PtypString**  | "0000000038A1BB1005E5101A​A1BB08002B2A56C20000454D​534D44422E444C4C000000000​00000001B55FA20AA6611CD9​BC800AA002FC45A0C00000033​36353952392D413131002F6F3​D4669727374204F7267616E69​7A6174696F6E2F6F753D45786​368616E67652041646D696E69​73747261746976652047726F7​570202846594449424F484632​335350444C54292F636E3D526​563697069656E74732F636E3D​75736572313000" |
| **PidNameXSharingRemoteStoreUid** (section [2.2.3.4](#Section_a73a0a098fe443648c12371aa6bebadb))  | 0x8375 | **PtypString**  | "0000000038A1BB1005E5101AA​1BB08002B2A56C20000454D5​34D44422E444C4C0000000000​0000001B55FA20AA6611CD9B​C800AA002FC45A0C000000333​6353952392D413131002F6F3D​4669727374204F7267616E697​A6174696F6E2F6F753D457863​68616E67652041646D696E697​3747261746976652047726F75​70202846594449424F4846323​35350444C54292F636E3D5265​63697069656E74732F636E3D7​5736572313000" |

\* The following data shows the value of the **PidLidSharingProviderGuid** property. The size of the value is 16 bytes.

1. 0000: AE F0 06 00 00 00 00 00 C0 00 00 00 00 00 00 46 ...............F

\*\* The following data shows the value of the **PidLidSharingInitiatorEntryId** property. The size of the value is 125 bytes.

1. 0000: 00 00 00 00 DC A7 40 C8 C0 42 10 1A B4 B9 08 00 ......@..B......
2. 0010: 2B 2F E1 82 01 00 00 00 00 00 00 00 2F 6F 3D 46 +/........../o=F
3. 0020: 69 72 73 74 20 4F 72 67 61 6E 69 7A 61 74 69 6F irst Organizatio
4. 0030: 6E 2F 6F 75 3D 45 78 63 68 61 6E 67 65 20 41 64 n/ou=Exchange Ad
5. 0040: 6D 69 6E 69 73 74 72 61 74 69 76 65 20 47 72 6F ministrative Gro
6. 0050: 75 70 20 28 46 59 44 49 42 4F 48 46 32 33 53 50 up (FYDIBOHF23SP
7. 0060: 44 4C 54 29 2F 63 6E 3D 52 65 63 69 70 69 65 6E DLT)/cn=Recipien
8. 0070: 74 73 2F 63 6E 3D 75 73 65 72 31 30 00 ts/cn=user10.

After properly addressing the message as described in [[MS-OXOMSG]](%5BMS-OXOMSG%5D.pdf#Section_daa9120ff3254afba73828f91049ab3c), the client sends the message to Kendall by using the **RopSubmitMessage** ROP ([MS-OXCROPS] section 2.2.7.1) and then releases the Message object by using the **RopRelease** **ROP** ([MS-OXCROPS] section 2.2.15.3).

The client then grants Kendall permission to the folder as described in [[MS-OXODLGT]](%5BMS-OXODLGT%5D.pdf#Section_01a89b119c434c40b1478f6a1ef5a44f).

Then the client opens the sharing request by using the **RopOpenMessage** ROP ([MS-OXCROPS] section 2.2.6.1). The server returns a success code and a handle to the Message object.

The client sets the properties on the sharing request to indicate that the client has sent a sharing response accepting the request and to specify the time at which the response was sent, as shown in the following table. The client sets these properties by using the **RopSetProperties** ROP ([MS-OXCROPS] section 2.2.8.6).

| Property  | Property ID  | Property type  | Data  | Value  |
| --- | --- | --- | --- | --- |
| **PidLidSharingResponseType** (section [2.2.4.2](#Section_23a56bbb95134b398ea62826fb0d733a)) | 0x83E4 | **PtypInteger32** ([MS-OXCDATA] section 2.11.1) | 01 00 00 00 | 0x00000001 |
| **PidLidSharingResponseTime** (section [2.2.4.1](#Section_2121e3976fe846e0a5212f8a5b4876c6)) | 0x83E3 | **PtypTime** ([MS-OXCDATA] section 2.11.1) | 00 9A C2 CF E3 7F C8 01 | 2008/03/06 23:43:00.000 |

The client saves the changes by using the **RopSaveChangesMessage** ROP ([MS-OXCROPS] section 2.2.6.3) and releases the Message object by using the **RopRelease** ROP.

# Security

## Security Considerations for Implementers

There are no security considerations specific to the Sharing Message Object Protocol. General security considerations pertaining to the underlying transport apply, as described in [[MS-OXCMSG]](%5BMS-OXCMSG%5D.pdf#Section_7fd7ec40deec4c0694931bc06b349682).

## Index of Security Parameters

None.

# Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

* Microsoft Exchange Server 2007
* Microsoft Exchange Server 2010
* Microsoft Exchange Server 2013
* Microsoft Exchange Server 2016
* Microsoft Office Outlook 2007
* Microsoft Outlook 2010
* Microsoft Outlook 2013
* Microsoft Outlook 2016
* Microsoft Exchange Server 2019
* Microsoft Outlook 2019
* Microsoft Outlook 2021
* Microsoft Outlook 2024 Preview

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

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

[<1> Section 2.2.2.8](#Appendix_A_Target_1): Office Outlook 2007 sets the value of the **PidLidSharingInitiatorName** property (section [2.2.2.8](#Section_ec47213c77cd4ba4baeccef936661914)) but, upon receipt, ignores the property and queries the [**address book**](#gt_d16f7b78-c5a6-48f4-9e0f-3b205b5598b5) for its value based on the **PidLidSharingInitiatorEntryId** property (section [2.2.2.7](#Section_3a79f1fd50964049b86cb0ec9f64cfa3)).

[<2> Section 2.2.2.9](#Appendix_A_Target_2): Office Outlook 2007 sets the value of the **PidLidSharingInitiatorSmtp** property (section [2.2.2.9](#Section_44a44336d6cf4930b08615722e09cb40)) but, upon receipt, ignores the property and queries the address book for its value based on the **PidLidSharingInitiatorEntryId** property (section 2.2.2.7).

[<3> Section 2.2.2.14](#Appendix_A_Target_3): Office Outlook 2007 sets the value of the **PidLidSharingProviderName** property (section [2.2.2.14](#Section_b3df8b7162e145168639847015cc2f33)) but, upon receipt, ignores the property and instead uses a custom value based on the **PidLidSharingProviderGuid** property (section [2.2.2.12](#Section_6f640548397542909f77bd671c5938fa)).

[<4> Section 2.2.2.15](#Appendix_A_Target_4): Office Outlook 2007 sets the value of the **PidNameXSharingProviderName** property (section [2.2.2.15](#Section_3ad9244b293249439d81aa306dffae4b)) but, upon receipt, ignores the property and instead uses a custom value based on the **PidLidSharingProviderGuid** property (section 2.2.2.12).

[<5> Section 2.2.2.16](#Appendix_A_Target_5): Office Outlook 2007 sets the value of the **PidLidSharingProviderUrl** property (section [2.2.2.16](#Section_3d6d837a2db54cb29d7e570076ec2758)) but, upon receipt, ignores the property and instead uses a custom value based on the **PidLidSharingProviderGuid** property (section 2.2.2.12).

[<6> Section 2.2.2.17](#Appendix_A_Target_6): Office Outlook 2007 sets the value of the **PidNameXSharingProviderUrl** property (section [2.2.2.17](#Section_dda731b76282467e9777f7da60346a48)) but, upon receipt, ignores the property and instead uses a custom value based on the **PidLidSharingProviderGuid** property (section 2.2.2.12).

[<7> Section 2.2.3](#Appendix_A_Target_7): Office Outlook 2007 sets these properties regardless of the type of [**Sharing Message object**](#gt_f566b3bf-b4bc-4949-9ecd-d33aa0b092dc).

[<8> Section 2.2.3.5](#Appendix_A_Target_8): Office Outlook 2007 sets the **PidLidSharingRemoteType** property to the same value as the **PidLidSharingLocalType** property (section [2.2.2.10](#Section_6635132da9bb459c804e960c297d6107)) but, upon receipt, ignores the property and uses only the **PidLidSharingLocalType** property to determine behavior.

[<9> Section 2.2.3.6](#Appendix_A_Target_9): Office Outlook 2007 sets the **PidNameXSharingRemoteType** property to the same value as the **PidLidSharingLocalType** property (section 2.2.2.10) but, upon receipt, ignores the property and uses only the **PidLidSharingLocalType** property to determine behavior.

[<10> Section 2.2.6](#Appendix_A_Target_10): Office Outlook 2007 sets differing subsets of these properties in different scenarios, but their values have no meaning in the context of this protocol.

# Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

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

* A document revision that incorporates changes to interoperability requirements.
* A document revision that captures changes to protocol functionality.

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

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

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

| Section | Description | Revision class |
| --- | --- | --- |
| [6](#Section_befa0f36467649349fa62f3edf7fdb38) Appendix A: Product Behavior | Updated list of supported products. | Major |

# Index

A

Abstract data model

 [client](#section_6bda698aa2c74d93a3052969e432fe70) 18

 [server](#section_c59ee12bb1204ad88132e168a78617b2) 19

[Accepting a sharing request example](#section_31acaf0b01804f6e8a51e50cc972f234) 27

Additional property constraints

 [PidNameContentClass property](#section_9dbb7f74d70b4d52b3f228746d54fc31) 15

 [PidTagMessageClass property](#section_dd524d2cc252460483c1b5bf1ea09781) 15

[Additional Property Constraints message](#section_c86f83fe11544c2e93d5ad333b80d9af) 15

[Applicability](#section_12f60a22cbc24bac9f88a416d6a62654) 8

C

[Capability negotiation](#section_7037c60891454020a490b4d0b2a045d5) 8

[Change tracking](#section_2861e9578bde484b9b75d6c719337e40) 34

Client

 [abstract data model](#section_6bda698aa2c74d93a3052969e432fe70) 18

 [initialization](#section_351b344175e741228657ffb2b2b165c1) 18

 [message processing](#section_95d3ee71341f4fe08f3d484396f43c42) 19

 [other local events](#section_b0b9af5b3fec47ba975b6e6577c3bb7f) 19

 [overview](#section_af23cb72e9674231a53e0c26ade943d9) 18

 [sequencing rules](#section_95d3ee71341f4fe08f3d484396f43c42) 19

 [timer events](#section_300593fdd75e4af29d648e8bb3ec0317) 19

 [timers](#section_7554d839fe964322a493d866a419191d) 18

Client - higher-layer triggered events

 [creating a sharing invitation](#section_681a608703d5494986704c0a1138c801) 18

 [creating a sharing request](#section_35d8df84be3544d1913987c61492cdc8) 18

 [creating a sharing response - accept](#section_5f28e71c7ade4cc7b591bca17ac48894) 18

 [creating a sharing response - deny](#section_4d72d7bd9203477ca6311f1c9078aa97) 19

[Common Message Object Properties message](#section_9faef68b8bba4f0db88062c07bdb97ce) 9

Common Sharing Message object properties

 [PidLidSharingCapabilities property](#section_6398ef10dee14521b1b0d4a0af94739f) 9

 [PidLidSharingConfigurationUrl property](#section_11fb8021cd98453faec8198309535808) 10

 [PidLidSharingFlavor property](#section_8204b84ccd7b4db2b617d4c9243f2a74) 10

 [PidLidSharingInitiatorEntryId property](#section_3a79f1fd50964049b86cb0ec9f64cfa3) 11

 [PidLidSharingInitiatorName property](#section_ec47213c77cd4ba4baeccef936661914) 11

 [PidLidSharingInitiatorSmtp property](#section_44a44336d6cf4930b08615722e09cb40) 11

 [PidLidSharingLocalType property](#section_6635132da9bb459c804e960c297d6107) 12

 [PidLidSharingProviderGuid property](#section_6f640548397542909f77bd671c5938fa) 12

 [PidLidSharingProviderName property](#section_b3df8b7162e145168639847015cc2f33) 12

 [PidLidSharingProviderUrl property](#section_3d6d837a2db54cb29d7e570076ec2758) 13

 [PidNameXSharingCapabilities property](#section_e03acb90ac2d42749da621c39b014a9e) 10

 [PidNameXSharingConfigUrl property](#section_4e05ae3067ce41dbaf08af11c52d5354) 10

 [PidNameXSharingFlavor property](#section_e0921aaa81d541f7b3e1ea33633ba119) 11

 [PidNameXSharingLocalType property](#section_d2877c674b14404981c016783fc5a994) 12

 [PidNameXSharingProviderGuid property](#section_8fc95310c7af468da1405c28c3fd276f) 12

 [PidNameXSharingProviderName property](#section_3ad9244b293249439d81aa306dffae4b) 13

 [PidNameXSharingProviderUrl property](#section_dda731b76282467e9777f7da60346a48) 13

[Common Sharing Message Object Properties message](#section_11d5616b8d234fcb8c751e4381d6cad1) 9

D

Data model - abstract

 [client](#section_6bda698aa2c74d93a3052969e432fe70) 18

 [server](#section_c59ee12bb1204ad88132e168a78617b2) 19

[Denying a sharing request example](#section_dd033237ac3d443eae26659ee7637fcb) 25

E

Examples

 [accepting a sharing request](#section_31acaf0b01804f6e8a51e50cc972f234) 27

 [denying a sharing request](#section_dd033237ac3d443eae26659ee7637fcb) 25

 [sending a sharing request](#section_9a19bac049ca457ea3bcb5a3bf1b8b08) 23

F

[Fields - vendor-extensible](#section_3375050438504ac5b56ac7db6d5d4b72) 8

G

[Glossary](#section_eeda8902ceb74563bf024eb3a358e599) 6

H

Higher-layer triggered events

 [server](#section_26023fc4c7ea47dd80652039b2acc5d5) 19

Higher-layer triggered events - client

 [creating a sharing invitation](#section_681a608703d5494986704c0a1138c801) 18

 [creating a sharing request](#section_35d8df84be3544d1913987c61492cdc8) 18

 [creating a sharing response - accept](#section_5f28e71c7ade4cc7b591bca17ac48894) 18

 [creating a sharing response - deny](#section_4d72d7bd9203477ca6311f1c9078aa97) 19

I

[Ignored Properties message](#section_6a85c47091be4b6380a0cbdf45401e64) 15

[Implementer - security considerations](#section_0e13ee1e6e4246ddac4568ec207661bb) 31

[Index of security parameters](#section_127d3c61313b4e85a4835e0c89ebf9b6) 31

[Informative references](#section_47d7db0904724d079ba8c0ba5e3dce7f) 8

Initialization

 [client](#section_351b344175e741228657ffb2b2b165c1) 18

 [server](#section_228585c4717a48e194171cfbddc74b53) 19

[Introduction](#section_b0ae2ab20d2c4ae1a50e349ead88ae02) 6

M

Message processing

 [client](#section_95d3ee71341f4fe08f3d484396f43c42) 19

 [server](#section_5f74e31ec61e410f9456b0ff6277ad5c) 19

Messages

 [Additional Property Constraints](#section_c86f83fe11544c2e93d5ad333b80d9af) 15

 [Common Message Object Properties](#section_9faef68b8bba4f0db88062c07bdb97ce) 9

 [Common Sharing Message Object Properties](#section_11d5616b8d234fcb8c751e4381d6cad1) 9

 [Ignored Properties](#section_6a85c47091be4b6380a0cbdf45401e64) 15

 [Sharing Invitation and Response Acceptance Properties](#section_e90b680e14984387a95a3c62de81ff56) 13

 [Sharing Request Properties](#section_6e48d5273aa449b28a3c71f07ff30281) 14

 [syntax](#section_6e86e3d4c0024cc09581686bef59c05c) 9

 [transport](#section_07417f5caa294f7995b280092a26a557) 9

N

[Normative references](#section_311f9bf8503d44c89c4d18e38a76c1e7) 7

O

Other local events

 [client](#section_b0b9af5b3fec47ba975b6e6577c3bb7f) 19

 [server](#section_fc0ac2b70359483eb5f0778fe55ef30a) 20

[Overview (synopsis)](#section_e7e665004e3544d39549c868dffc8e2b) 8

P

[Parameters - security index](#section_127d3c61313b4e85a4835e0c89ebf9b6) 31

[PidLidSharingCapabilities common Sharing Message object property](#section_6398ef10dee14521b1b0d4a0af94739f) 9

[PidLidSharingConfigurationUrl common Sharing Message object property](#section_11fb8021cd98453faec8198309535808) 10

[PidLidSharingFlavor common Sharing Message object property](#section_8204b84ccd7b4db2b617d4c9243f2a74) 10

[PidLidSharingInitiatorEntryId common Sharing Message object property](#section_3a79f1fd50964049b86cb0ec9f64cfa3) 11

[PidLidSharingInitiatorName common Sharing Message object property](#section_ec47213c77cd4ba4baeccef936661914) 11

[PidLidSharingInitiatorSmtp common Sharing Message object property](#section_44a44336d6cf4930b08615722e09cb40) 11

[PidLidSharingLocalType common Sharing Message object property](#section_6635132da9bb459c804e960c297d6107) 12

[PidLidSharingProviderGuid common Sharing Message object property](#section_6f640548397542909f77bd671c5938fa) 12

[PidLidSharingProviderName common Sharing Message object property](#section_b3df8b7162e145168639847015cc2f33) 12

[PidLidSharingProviderUrl common Sharing Message object property](#section_3d6d837a2db54cb29d7e570076ec2758) 13

[PidLidSharingRemoteName sharing invitation and response property](#section_0a3385de0db54e959cee2393fa9d9242) 13

[PidLidSharingRemoteStoreUid sharing invitation and response property](#section_8019976ed201427c83a20a210ccbc524) 13

[PidLidSharingRemoteType sharing invitation and response property](#section_be24839a2e474900b79db5bab7909cbd) 14

[PidLidSharingRemoteUid sharing invitation and response property](#section_d141e1c36db54584b54f418af96b8c4b) 14

[PidLidSharingResponseTime sharing request property](#section_2121e3976fe846e0a5212f8a5b4876c6) 14

[PidLidSharingResponseType sharing request property](#section_23a56bbb95134b398ea62826fb0d733a) 14

[PidNameContentClass additional property constraints](#section_9dbb7f74d70b4d52b3f228746d54fc31) 15

[PidNameXSharingCapabilities common Sharing Message object property](#section_e03acb90ac2d42749da621c39b014a9e) 10

[PidNameXSharingConfigUrl common Sharing Message object property](#section_4e05ae3067ce41dbaf08af11c52d5354) 10

[PidNameXSharingFlavor common Sharing Message object property](#section_e0921aaa81d541f7b3e1ea33633ba119) 11

[PidNameXSharingLocalType common Sharing Message object property](#section_d2877c674b14404981c016783fc5a994) 12

[PidNameXSharingProviderGuid common Sharing Message object property](#section_8fc95310c7af468da1405c28c3fd276f) 12

[PidNameXSharingProviderName common Sharing Message object property](#section_3ad9244b293249439d81aa306dffae4b) 13

[PidNameXSharingProviderUrl common Sharing Message object property](#section_dda731b76282467e9777f7da60346a48) 13

[PidNameXSharingRemoteName sharing invitation and response property](#section_7a8bdb439a7b4d458df82eb411021069) 13

[PidNameXSharingRemoteStoreUid sharing invitation and response property](#section_a73a0a098fe443648c12371aa6bebadb) 14

[PidNameXSharingRemoteType sharing invitation and response property](#section_61a91feecb114305b61af7894635de42) 14

[PidNameXSharingRemoteUid sharing invitation and response property](#section_8d8456fa205245c9b63199b76b66dd35) 14

[PidTagMessageClass additional property constraints](#section_dd524d2cc252460483c1b5bf1ea09781) 15

[Preconditions](#section_940a9db0f75a4977b9328810bc339f0a) 8

[Prerequisites](#section_940a9db0f75a4977b9328810bc339f0a) 8

[Product behavior](#section_befa0f36467649349fa62f3edf7fdb38) 32

R

[References](#section_4807383e31894884bfc12aedec3368b4) 7

 [informative](#section_47d7db0904724d079ba8c0ba5e3dce7f) 8

 [normative](#section_311f9bf8503d44c89c4d18e38a76c1e7) 7

[Relationship to other protocols](#section_a654a4800c2d466eace220868c8b88a6) 8

S

Security

 [implementer considerations](#section_0e13ee1e6e4246ddac4568ec207661bb) 31

 [parameter index](#section_127d3c61313b4e85a4835e0c89ebf9b6) 31

[Sending a sharing request example](#section_9a19bac049ca457ea3bcb5a3bf1b8b08) 23

Sequencing rules

 [client](#section_95d3ee71341f4fe08f3d484396f43c42) 19

 [server](#section_5f74e31ec61e410f9456b0ff6277ad5c) 19

Server

 [abstract data model](#section_c59ee12bb1204ad88132e168a78617b2) 19

 [higher-layer triggered events](#section_26023fc4c7ea47dd80652039b2acc5d5) 19

 [initialization](#section_228585c4717a48e194171cfbddc74b53) 19

 [message processing](#section_5f74e31ec61e410f9456b0ff6277ad5c) 19

 [other local events](#section_fc0ac2b70359483eb5f0778fe55ef30a) 20

 [overview](#section_27bbbaa623b74e6f9af564dd5b477fa2) 19

 [sequencing rules](#section_5f74e31ec61e410f9456b0ff6277ad5c) 19

 [timer events](#section_d986a33b6c4a4655a53268877ee4facd) 20

 [timers](#section_e88c8fd982b140e0bd7a6eaffc3693fd) 19

Sharing invitation and response acceptance properties

 [PidLidSharingRemoteName property](#section_0a3385de0db54e959cee2393fa9d9242) 13

 [PidLidSharingRemoteStoreUid property](#section_8019976ed201427c83a20a210ccbc524) 13

 [PidLidSharingRemoteType property](#section_be24839a2e474900b79db5bab7909cbd) 14

 [PidLidSharingRemoteUid property](#section_d141e1c36db54584b54f418af96b8c4b) 14

 [PidNameXSharingRemoteName property](#section_7a8bdb439a7b4d458df82eb411021069) 13

 [PidNameXSharingRemoteStoreUid property](#section_a73a0a098fe443648c12371aa6bebadb) 14

 [PidNameXSharingRemoteType property](#section_61a91feecb114305b61af7894635de42) 14

 [PidNameXSharingRemoteUid property](#section_8d8456fa205245c9b63199b76b66dd35) 14

[Sharing Invitation and Response Acceptance Properties message](#section_e90b680e14984387a95a3c62de81ff56) 13

Sharing request properties

 [PidLidSharingResponseTime property](#section_2121e3976fe846e0a5212f8a5b4876c6) 14

 [PidLidSharingResponseType property](#section_23a56bbb95134b398ea62826fb0d733a) 14

[Sharing Request Properties message](#section_6e48d5273aa449b28a3c71f07ff30281) 14

[Standards assignments](#section_61bda979cf004ed39537bfb5f490cd8c) 8

[Syntax](#section_6e86e3d4c0024cc09581686bef59c05c) 9

T

Timer events

 [client](#section_300593fdd75e4af29d648e8bb3ec0317) 19

 [server](#section_d986a33b6c4a4655a53268877ee4facd) 20

Timers

 [client](#section_7554d839fe964322a493d866a419191d) 18

 [server](#section_e88c8fd982b140e0bd7a6eaffc3693fd) 19

[Tracking changes](#section_2861e9578bde484b9b75d6c719337e40) 34

[Transport](#section_07417f5caa294f7995b280092a26a557) 9

Triggered events - client

 [creating a sharing invitation](#section_681a608703d5494986704c0a1138c801) 18

 [creating a sharing request](#section_35d8df84be3544d1913987c61492cdc8) 18

 [creating a sharing response - accept](#section_5f28e71c7ade4cc7b591bca17ac48894) 18

 [creating a sharing response - deny](#section_4d72d7bd9203477ca6311f1c9078aa97) 19

Triggered events - higher-layer

 [server](#section_26023fc4c7ea47dd80652039b2acc5d5) 19

V

[Vendor-extensible fields](#section_3375050438504ac5b56ac7db6d5d4b72) 8

[Versioning](#section_7037c60891454020a490b4d0b2a045d5) 8