

[MS-OXOSFLD]: Special Folders Protocol Specification

Intellectual Property Rights Notice for Protocol Documentation

- **Copyrights.** This protocol 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 may make copies of it in order to develop implementations of the protocols, and may distribute portions of it in your implementations of the protocols or your documentation as necessary to properly document the implementation. This permission also applies to any documents that are referenced in the protocol documentation.
- **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
- **Patents.** Microsoft has patents that may cover your implementations of the protocols. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, the protocols may be covered by Microsoft's Open Specification Promise (available here: <http://www.microsoft.com/interop/osp/default.mspx>). If you would prefer a written license, or if the protocols are not covered by the OSP, patent licenses are available by contacting protocol@microsoft.com.
- **Trademarks.** The names of companies and products contained in this documentation may be covered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights.

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

Preliminary Documentation. This documentation is preliminary documentation for these protocols. Since the documentation may change between this preliminary version and the final version, there are risks in relying on preliminary documentation. To the extent that you incur additional development obligations or any other costs as a result of relying on this preliminary documentation, you do so at your own risk.

Tools. This protocol documentation is intended for use in conjunction with publicly available standard specifications and networking programming art, and assumes that the reader is either familiar with the aforementioned material or has immediate access to it. A protocol specification does not require the use of Microsoft programming tools or programming environments in order for a Licensee to develop an implementation. Licensees who have access to Microsoft programming tools and environments are free to take advantage of them.

Revision Summary			
Author	Date	Version	Comments
Microsoft Corporation	April 4, 2008	0.1	Initial Availability.
Microsoft Corporation	April 25, 2008	0.2	Revised and updated property names and other technical content.

Preliminary

Table of Contents

1	Introduction	5
1.1	Glossary	5
1.2	References	7
1.2.1	Normative References	7
1.2.2	Informative References	8
1.3	Protocol Overview (Synopsis)	9
1.4	Relationship to Other Protocols	12
1.5	Prerequisites/Preconditions	12
1.6	Applicability Statement	12
1.7	Versioning and Capability Negotiation	12
1.8	Vendor-Extensible Fields	12
1.9	Standards Assignments	13
2	Messages	13
2.1	Transport	13
2.2	Message Syntax	13
2.2.1	Binary Identification Properties	14
2.2.2	Format of PidTagAdditionalRenEntryIds	14
2.2.3	Format of PidTagAdditionalRenEntryIdsEx	15
2.2.4	Inbox Identification	17
2.2.5	PidTagContainerClass	17
3	Protocol Details	18
3.1	Client and Server Details	18
3.1.1	Abstract Data Model	18
3.1.2	Timers	21
3.1.3	Initialization	21
3.1.4	Higher-Layer Triggered Events	21
3.1.5	Message Processing Events and Sequencing Rules	28
3.1.6	Timer Events	29
3.1.7	Other Local Events	29
4	Protocol Examples	29
4.1	Opening a Special Folder	29
4.1.1	Client Request for Opening a Special Folder	29
4.1.2	Server Response for Opening a Special Folder	31
4.2	Creating a Special Folder	32
4.2.1	Client Request for Creating a Special Folder	33
4.2.2	Server Response for Creating a Special Folder	35
5	Security	37
5.1	Security Considerations for Implementers	37
5.2	Index of Security Parameters	37
6	Appendix A: Office/Exchange Behavior	37
7	Index	39

Preliminary

1 Introduction

User data objects are stored by default in a set of common folders referred to as special folders.

The Special Folders protocol specifies:

- The set of special folders shared by client and server implementations of this protocol
- The specific protocol used to find and interact with each special folder
- The type of objects stored in each special folder

1.1 Glossary

The following terms are defined in [MS-OXGLOS]:

complete flag
Calendar folder
Deferred Action Folder (DAF)
delegate
entry ID
folder
folder ID (FID)
free/busy
journal
message ID (MID)
Message object
property
property tag
Receive folder restriction
search criteria
search folder
special folder
store
Task object

The following data types are defined in [MS-DTYP]:

Boolean
BYTE
DWORD
LONG
ULONG

The following terms are specific to this document:

Common Views folder: The **special folder** that contains the data for default views that are standard for the message **store** and that can be used by any user of a client accessing the message store.

Conflicts folder: The **special folder** that contains **Message objects** that indicate synchronization conflicts between client and server.

Container class: the value of the string property PidTagContainerClass on a folder, indicating the default message object type for the folder.

Deleted Items folder: The **special folder** that is the default location for objects that have been deleted.

Drafts folder: The **special folder** that is the default location for composed e-mail **Message objects** that have been saved but not sent.

Finder folder: The **special folder** that contains the default **search folders**.

identification method: The means by which an implementation locates or identifies a particular **special folder**.

Inbox folder: The **special folder** that is the default location for incoming (received) e-mail **Message objects**.

Junk E-mail folder: The **special folder** that is the default location for e-mail **Message objects** determined to be Junk e-mail by a Junk E-mail Filter.

Local Failures folder: The **special folder** that contains messages that indicate client-side synchronization failures.

Notes folder: The **special folder** that contains Note objects.

Outbox folder: The **special folder** that contains outgoing e-mail **Message objects** at submit time (when the message object is sent).

Personal Views folder: The **special folder** that contains the data for views defined by a particular user.

Reminders folder: The **special folder** that is a search folder that supports Reminder functionality.

Root folder: The **special folder** that is the store hierarchy's top-level folder which contains all other folder objects in that store.

RSS Feeds folder: The **special folder** that contains RSS Feed messages.

Sent Mail folder: The **special folder** that is the default location in which copies of e-mail **Message objects** are placed after they have been submitted (sent).

Server Failures folder: The **special folder** that contains messages that indicate server-side synchronization failures.

Sync Issues folder: The **special folder** that contains other folders that contain messages that indicate particular issues encountered during synchronization between client and

server.

Tasks folder: The **special folder** that contains **Task objects**.

To-Do Search folder: The **special folder** used for tracking **Task objects**.

Top of Personal Folders folder: The **special folder** that is the top folder of the inter-personal message hierarchy, which contains user data folders, including most **Special Folders** such as Inbox, and so on.

Tracked Mail Processing folder: The **special folder** that contains objects flagged by the Send and Track feature.

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

1.2 References

1.2.1 Normative References

[MS-DTYP] Microsoft Corporation, "Windows Data Types", March 2007, <http://go.microsoft.com/fwlink/?LinkId=111558>.

[MS-OXCADATA] Microsoft Corporation, "Data Structures Protocol Specification", April 2008.

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

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

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

[MS-OXCROPS] Microsoft Corporation, "Remote Operations (ROP) List and Encoding Protocol Specification", April 2008.

[MS-OXCSPAM] Microsoft Corporation, "Spam Confidence Level, Allow and Block Lists Protocol Specification", April 2008.

[MS-OXCSTOR] Microsoft Corporation, "Store Object Protocol Specification", April 2008.

[MS-OXCSYNC] Microsoft Corporation, "Mailbox Synchronization Protocol Specification", April 2008.

[MS-OXGLOS] Microsoft Corporation, "Office Exchange Protocols Master Glossary", April 2008.

[MS-OXOSFLD] - v0.2

Special Folders Protocol Specification
Copyright © 2008 Microsoft Corporation.
Release: Friday, April 25, 2008

- [MS-OXOCAL] Microsoft Corporation, "Appointment and Meeting Object Protocol Specification", April 2008.
- [MS-OXOCFG] Microsoft Corporation, "Configuration Information Protocol Specification", April 2008.
- [MS-OXOCNTC] Microsoft Corporation, "Contact Object Protocol Specification", April 2008.
- [MS-OXODLGT] Microsoft Corporation, "Delegate Access Configuration Protocol Specification", April 2008.
- [MS-OXOFLAG] Microsoft Corporation, "Informational Flagging Protocol Specification", April 2008.
- [MS-OXOJRNL] Microsoft Corporation, "Journal Object Protocol Specification", April 2008.
- [MS-OXONOTE] Microsoft Corporation, "Note Object Protocol Specification", April 2008.
- [MS-OXOPFFB] Microsoft Corporation, "Public Folder Based Free/Busy Protocol Specification", April 2008.
- [MS-OXORULE] Microsoft Corporation, "E-mail Rules Protocol Specification", April 2008.
- [MS-OXOSRCH] Microsoft Corporation, "Search Folder List Configuration Protocol Specification", April 2008.
- [MS-OXOTASK] Microsoft Corporation, "Task-Related Objects Protocol Specification", April 2008.
- [MS-OXPHISH] Microsoft Corporation, "Phishing Warning Protocol Specification", April 2008.
- [MS-OXPROPS] Microsoft Corporation, "Office Exchange Protocols Master Property List Specification", April 2008.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.ietf.org/rfc/rfc2119.txt>.

1.2.2 Informative References

None.

1.3 Protocol Overview (Synopsis)

The Special Folders protocol extends the Folder Object protocol, which provides users with a general-purpose organizational mechanism based on **folder** objects. Users have the option of storing particular types of data, such as E-mail messages, Personal Information Manager (PIM) objects such as Appointments and Contacts, and so on, in particular folders as they see fit. The Special Folders protocol specifies the default set of such folders that an implementation supports out of the box, as well as other non-user-visible **special folders** that support specific folders for certain types of application data, such as Reminders and Views.

Interaction with special folders begins with a determination of whether or not a particular special folder exists within an opened **store** object, which is specified by the Store Object protocol. This determination is based on the following criteria – note that all **property tags** referenced in this and subsequent sections are specified by [MS-OXPROPS]:

- The appropriate **identification method** has been established for the given special folder.
- The special folder exists in the store object.
- The value of the folder's PidTagContainerClass **property** is set to the value defined for that particular special folder.

If these criteria are not met for a particular special folder, an implementation uses the Folder Object protocol to create the folder or, in the case of the **Root folder**, returns an error.

An important aspect of the Special Folders protocol is the method used to identify special folders after they are created. Following these identification methods ensures that the same special folder will continue to be used for a particular type of messaging object after the folder is created, and allows an implementation to access special folders in a performant manner. The identification method for each special folder is specified in section 2.2.

The following table contains the set of folders which are special folders, along with the **container class** for each folder where applicable, and references for further information.

Special Folder Name	Description	Container Class	Related Information
Root	The store hierarchy's top-level folder which contains all other folder objects in that store.	None	[MS-OXCSTOR]
Finder	Contains the Default Search Folders .	None	[MS-OXOSRCH]
Freebusy Data	Contains the free/busy data of the owner.	None	[MS-OXOPFFB]

Top of Personal Folders	The top folder of the inter-personal message hierarchy, which contains user data folders, including most special folders, such as Inbox, and so on.	None	[MS- OXCSTOR]
Deleted Items	The default location for objects that have been deleted.	“IPF.Note”	[MS- OXOMSG]
Outbox	Outgoing e-mail message objects are placed in this folder at submit time (when the message object is sent).	“IPF.Note”	[MS- OXOMSG]
Sent Mail	The default location in which copies of e-mail Message objects are placed after they have been submitted (sent)	“IPF.Note”	[MS- OXOMSG]
Inbox	The default location for incoming (received) e-mail Message objects.	“IPF.Note”	[MS- OXOMSG]
Common Views	Contains the data for default views that are standard for the message store and that can be used by any user of a client accessing the message store.	None	None
Personal Views	Contains the data for views defined by a particular user.	None	None
Deferred Action Folder	Contains the deferred action messages that resulted from the execution of client-side	None	[MS- OXORULE]

	rules.		
Calendar	Contains Calendar objects such as Appointments.	“IPF.Appointment”	[MS- OXOCAL]
Contacts	Contains Contact objects.	“IPF.Contact”	[MS- OXOCNTC]
Journal	Contains Journal objects.	“IPF.Journal”	[MS- OXOJRNL]
Notes	Contains Note objects.	“IPF.StickyNote”	[MS- OXONOTE]
Tasks	Contains Task objects.	“IPF.Task”	[MS- OXOTASK]
Reminders	Search Folder that supports Reminder functionality.	“Outlook.Reminder”	[MS- OXORMDR]
Drafts	The default location for composed e-mail Message objects that have been saved but not sent.	“IPF.Note”	[MS- OXOMSG]
Conflicts	Contains message objects that indicate synchronization conflicts between client and server.	“IPF.Note”	[MS- OXCSYNC]
Sync Issues	Contains folders which contain messages that indicate particular issues encountered during synchronization between client and server.	“IPF.Note”	[MS- OXCSYNC]
Local Failures	Contains messages that indicate client-side synchronization failures.	“IPF.Note”	[MS- OXCSYNC]

Server Failures	Contains messages that indicate server-side synchronization failures.	“IPF.Note”	[MS-OXCSYNC]
Junk E-mail	Default location for e-mail Message objects determined to be Junk e-mail by a Junk E-mail Filter.	“IPF.Note”	[MS-OXCSPAM]
RSS Feeds	Contains RSS Feed messages.	“IPF.Note.OutlookHomepage”	[MS-OXORSS]
Tracked Mail Processing	Search Folder containing objects flagged by the Send and Track feature.	“IPF.Note”	[MS-OXOFLAG]
To-Do Search	Search Folder used for tracking Task objects.	“IPF.Task”	[MS-OXOTASK]

1.4 Relationship to Other Protocols

The Special Folders protocol specification relies on an understanding of how to work with Stores, Folders, and Properties (for more details see [MS-OXCSTOR], [MS-OXCFLD], and [MS-OXCPRPT]), and how these objects are synchronized between the client and server.

1.5 Prerequisites/Preconditions

The Special Folders protocol specification assumes the messaging client has previously logged on to the messaging server and has acquired a handle to the store in which the special folders are located, as specified in [MS-OXCSTOR].

1.6 Applicability Statement

The Special Folders protocol can be used to locate existing or store newly-created well-known object types.

1.7 Versioning and Capability Negotiation

None.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

2.1 Transport

The specific formats for the underlying messages sent to and received from the server are specified by the **store** objects in [MS-OXCSTOR], **folder** objects in [MS-OXCFOLD], and **property** objects in [MS-OXCPRPT].

2.2 Message Syntax

The **identification method** for a **special folder** consists of one of the following:

- **Folder IDs (FIDs)** returned from RopLogon, as specified in [MS-OXCSTOR]. These FIDs identify the following folders:
 - o Root
 - o Finder
 - o Top of Personal Folders
 - o Deleted Items
 - o Outbox
 - o Sent Mail
 - o Inbox
 - o Common Views
 - o Personal Views
 - o **Deferred Action Folder**
- Binary properties which each contain only a single **entry ID**.
- PidTagAdditionalRenEntryIds, a MultiBinary property in which each indexed value contains an entry ID.
- PidTagAdditionalRenEntryIdsEx, a binary property in which the binary data is in its own format allowing for multiple entry IDs
- PidTagFreeBusyEntryIds, a MultiBinary property in which indexed value 3 contains the entry ID for the Freebusy Data folder. Further details on this property can be found in [MS-OXOPFFB].
- Use of the Store Object protocol to get or set the identity of the **Inbox folder**.

Unless otherwise noted below, the entry IDs returned by the above identification methods **MUST** be converted to FIDs, as specified in [MS-OXCADATA], before being used to open a special folder using the Folder Object protocol.

2.2.1 Binary Identification Properties

The binary properties which each contain only a single entry ID are read or written using the Property and Stream Object protocol. The following table lists these properties:

Property Name	Folder Identified
PidTagIpmAppointmentEntryId	Calendar
PidTagIpmContactEntryId	Contacts
PidTagIpmJournalEntryId	Journal
PidTagIpmNoteEntryId	Notes
PidTagIpmTaskEntryId	Tasks
PidTagRemindersOnlineEntryId	Reminders
PidTagIpmDraftsEntryId	Drafts

These properties are read from / written to the **Inbox** or **Root folder**. The implementation **MUST** use the Inbox folder when the store is that of the primary messaging user, and it **MUST** use the Root folder when the store is that of a **delegate** user. These user roles are specified in [MS-OXODLGT].

2.2.2 Format of PidTagAdditionalRenEntryIds

This MultiBinary property on the Inbox folder contains the entry IDs for several special folders. The following table lists the index into the PidTagAdditionalRenEntryIds value for each of these special folders:

Index	Folder Identified
0x0000	Conflicts
0x0001	Sync Issues
0x0002	Local Failures
0x0003	Server Failures
0x0004	Junk E-mail

0x0005	None. Reserved for use by the Spam Confidence Level, Allow and Block Lists protocol and the Phishing Warning protocol.
--------	--

If the implementation encounters an unknown index value in PidTagAdditionalRenEntryIds, the implementation MUST ignore and preserve the data in the index entry.

2.2.3 Format of PidTagAdditionalRenEntryIdsEx

Several of the special folder entry IDs are identified by this binary property on the containing store object. If present, the value of this property MUST contain an array of blocks containing the entry IDs for these folders, in the following format:

2.2.3.1.1 PersistData Block

Name	Type	Size	Description
PersistID	WORD	2	Type identifier value for this PersistData block. SHOULD be one of PersistBlockType values.
DataElementsSize	WORD	2	The size in BYTES of the DataElements field.
DataElements	array of PersistElement blocks	varies	0 or more PersistElement blocks.

PersistBlockType values SHOULD be one of the following – if a PersistData block is encountered where the PersistID value is not known to the implementation, the implementation MUST ignore that PersistData block and continue processing until either a PERSIST_SENTINEL PersistID or the end of the stream is encountered.

Name	Value	Description
RSF_PID_RSS_SUBSCRIPTION	0x8001	Indicates that this block contains data for the RSS Feeds folder .
RSF_PID_SEND_AND_TRACK	0x8002	Indicates that this block contains data for

		the Tracked Mail Processing folder.
RSF_PID_TODO_SEARCH	0x8004	Indicates that this block contains data for the To-Do Search folder.
PERSIST_SENTINEL	0x0000	Indicates that the implementation MUST stop processing further PersistData blocks.

2.2.3.1.2 PersistElement Block

Name	Type	Size	Description
ElementID	WORD	2	Type identifier value for this PersistElement block. SHOULD be one of PersistElementType values.
ElementDataSize	WORD	2	The size in BYTES of the ElementData field.
ElementData	BYTE array of binary data	varies	The data corresponding to this PersistID\ElementID.

PersistElementType values **SHOULD** be one of the following – if a PersistElement block is encountered where ElementID is not known to the implementation, the implementation **MUST** ignore that PersistElement block and continue processing further PersistElement blocks until an ELEMENT_SENTINEL ElementID or the end of the stream is encountered. The implementation **MUST** then continue processing further PersistData blocks until either a PERSIST_SENTINEL PersistID or the end of the stream is encountered.

Name	Value	Value of ElementDataSize	Description
RSF_ELID_HEADER	0x0002	0x0004	Indicates that this block's ElementData contains a DWORD Header value. The interpretation of this value depends on the current block's PersistID type. For all PersistID types specified

			in this section, this value MUST be 0.
RSF_ELID_ENTRYID	0x0001	varies	Indicates that this block contains the entry ID of the folder indicated by PersistID.
ELEMENT_SENTINEL	0x0000	0x0000	Indicates that the implementation MUST stop processing further PersistElement blocks for the current PersistData block.

2.2.4 Inbox Identification

To identify the Inbox, an implementation MUST use RopGetReceiveFolder from the Store Object protocol to get the FID for the default **Receive Folder** for the Store object.

2.2.5 PidTagContainerClass

Several special folders use this string property, located on the special folder itself, to describe the type of **message objects** that the folder contains. For these folders, an implementation MUST set this property as shown in the following table.

PropertyValue	Special Folder
“IPF.Note”	Deleted Items Outbox Sent Mail Inbox Drafts Conflicts Sync Issues Local Failures Server Failures Junk E-mail Tracked Mail Processing
“IPF.Appointment”	Calendar
“IPF.Contact”	Contacts
“IPF.Journal”	Journal
“IPF.StickyNote”	Notes

“IPF.Task”	Tasks To-Do Search
“Outlook.Reminder”	Reminders
“IPF.Note.OutlookHomepage”	RSS Feeds

3 Protocol Details

Note that the programming elements used in this section, including **restriction** elements such as RES_AND, RELOP_NE, **FID**, **message ID (MID)**, etc., are specified by the Data Structures protocol as specified in [MS-OXCDATA.

3.1 Client and Server Details

Special folders can be opened or created by clients and servers. Except where noted below, this section defines constraints to which clients and servers adhere when interacting with special folders.

3.1.1 Abstract Data Model

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

3.1.1.1 Folder Hierarchy

The following outline depicts a hierarchy for special folders.

- **Store**
 - Root
 - **Deferred Action Folder**
 - Finder
 - Reminders
 - Tracked Mail Processing
 - To-Do Search
 - Common Views
 - Personal Views
 - Top of Personal Folders
 - Deleted Items

- Outbox
- Sent Mail
- Inbox
- Calendar
- Contacts
- **Journal**
- Notes
- Tasks
- Drafts
- Sync Issues
 - Conflicts
 - Local Failures
 - Server Failures
- Junk E-mail
- RSS Feeds

3.1.1.2 Search Criteria for Search Special Folders

Some of the above special folders are **Search Folders** as specified in [MS-OXOSRCH], and the functionality supported by these **folders** depends on specific **Search Criteria**. The detailed specification for each of these is given in section 3.1.4.1 and an abstracted outline of these Search Criteria is as follows:

For the **Reminders folder**:

- Include all **message objects** in any folder contained within Top of Personal Folders, with the following restriction:
 - The following special folders are excluded from the search:
 - Deleted Items
 - Junk Mail
 - Drafts
 - Outbox
 - Conflicts
 - Local Failures
 - Server Failures
 - Sync Issues

- The value of the PidTagMessageClass string **property** does not contain a string with the prefix “IPM.Schedule”
- The value of the PidTagMessageFlags **LONG** property does not have the MSGFLAG_SUBMIT flag set (i.e. submitted message objects are excluded).
- The value of the PidLidReminderSet property is set to the **Boolean** value 1, OR the value of the PidLidRecurring property is set to the Boolean value 1.

For To-Do Search:

- All message objects in any folder contained within Top of Personal Folders, with the following restriction:
 - The following special folders are excluded from the search:
 - Deleted Items
 - Junk Mail
 - Drafts
 - Outbox
 - Conflicts
 - Local Failures
 - Server Failures
 - Sync Issues
 - The message class does not start with “IPM.Appointment” OR “IPM.Activity” OR “IPM.StickyNote”.
 - Any one of the following are true:
 - The message object is a Task [MS-OXOTASK] AND the Task is owned AND NOT Accepted AND the Task was sent to the currently logged on user.
 - The message object’s Followup Icon index is greater than 0.
 - The message object’s ToDoItem flags include the Active flag.
 - The message object is an object with the **complete flag** set to True or a completed Task. For Tracked Mail Processing:
- All message objects in any folder contained within Top of Personal Folders, with the following restriction:
 - The following special folders are excluded from the search:
 - Deleted Items
 - Junk Mail
 - Drafts

- Outbox
 - Conflicts
 - Local Failures
 - Server Failures
 - Sync Issues
- The PidTagSwappedToDoStore property exists on the object.
 - The value of the PidTagMessageFlags property does not include the MSGFLAG_UNSENT or the MSGFLAG_SUBMIT flags.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

Before an implementation attempts to read or write messaging objects within a special folder, the implementation **MUST** obtain a handle to the appropriate special folder using the following steps:

1. The implementation **MUST** attempt to open the special folder using the appropriate **identification method**, as specified in section 2.2, and the Folder Object protocol as specified in [MS-OXCFOLD].
2. If the identification method fails, or the special folder does not exist within the store, the implementation **MUST** create the special folder as specified in the following section.

3.1.4.1 Folder Creation

The Folder Hierarchy in section 3.1.1.1 also specifies the dependency chain for special folder creation. Before a special folder can be created, all of its container objects in this hierarchy **MUST** already exist. For example, all special folders (except Root) depend on the Store object and the Root special folder – therefore, the Store object and Root **MUST** exist before any special folder can exist. Also, before any Folder is created or opened, a **HANDLE** to its containing Store object [MS-OXCSTOR] **MUST** be obtained by opening the Store.

To create a special folder, an implementation **MUST** do the following:

1. Open the parent folder of the desired special folder, as specified in the Folder Hierarchy in section 3.1.1.1, using the Folder Object protocol.
2. Create the folder in the opened parent folder, using the Folder Object protocol, and using the special folder name appropriate to the implementation's locale, reusing the

existing folder if one already exists by that name. The FID returned MUST be converted to an **entry ID** as specified by [MS-OXCDATA]. The resulting entry ID of the new folder will be used in the following steps.

3. Establish the identification method for the particular special folder created, as specified in section 2.2.
4. If applicable, set the value of the PidTagContainerClass string property the appropriate value as specified in section 2.2.5.
5. Perform any special folder-specific initialization as specified in the following sections.

3.1.4.1.1 Creating the Reminders Folder

To complete the creation of the Reminders folder, an implementation SHOULD<1> set the Search Criteria for the Reminders folder, using the Search Folder List Configuration protocol and the Folder Object protocol, such that:

1. The **Top of Personal Folders folder** SHOULD be the only container included in the search.
2. The search applies a restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_AND, with the following sub-clauses – note that a sub-clause is only added if the particular special folder already exists within the store:
 1. A restriction of type RES_PROPERTY with a relational operator (relop) value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Deleted Items special folder.
 2. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Junk Mail special folder.
 3. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Drafts special folder.
 4. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Outbox special folder.
 5. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Conflicts special folder.
 6. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Local Failures special folder.

7. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Server Failures special folder.
 8. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Sync Issues special folder.
2. A restriction of type RES_AND, with the following three sub-clauses:
 1. A restriction of type RES_NOT with the following sub-clause:
 1. A restriction of type RES_AND with the following 2 sub-clauses:
 1. A restriction of type RES_EXIST that specifies the PidTagMessageClass property.
 2. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_PREFIX, comparing the value of PidTagMessageClass property to the string value "IPM.Schedule".
 2. A restriction of type RES_BITMASK with a relBMR value of BMR_EQZ that compares the value of the PidTagMessageFlags property to the ULONG value MSGFLAG_SUBMIT.
 3. A restriction of type RES_OR, with the following two sub-clauses:
 1. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of PidLidReminderSet property to the Boolean value 1.
 2. A restriction of type RES_AND, with the following two sub-clauses:
 1. A restriction of type RES_EXIST that specifies the PidLidRecurring property.
 2. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of PidLidRecurring property to the Boolean value 1.
 3. The search SHOULD run at normal priority relative to other searches, be initiated or restarted if necessary, include child folders, and run without content indexing.
 4. .

3.1.4.1.2 Creating the To-Do Search Folder

To complete the creation of the **To-Do Search folder**, an implementation **MUST** set the Search Criteria for the To-Do Search folder, using the Search Folder List Configuration protocol, such that:

1. The Top of Personal Folders folder MUST be the only container included in the search.
2. The search applies a restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_AND, with the following three sub-clauses:
 1. A restriction of type RES_NOT, with the following sub-clause:
 1. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_PREFIX bitwise or FL_IGNORECASE, comparing the value of PidTagMessageClass property to the string value “IPM.Appointment”.
 2. A restriction of type RES_NOT, with the following sub-clause:
 1. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_PREFIX bitwise or FL_IGNORECASE, comparing the value of PidTagMessageClass property to the string value “IPM.Activity”.
 3. A restriction of type RES_NOT, with the following sub-clause:
 1. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_PREFIX bitwise or FL_IGNORECASE, comparing the value of PidTagMessageClass property to the string value “IPM.StickyNote”.
 2. A restriction of type RES_AND, with the following two sub-clauses
 1. A restriction of type RES_AND, with the following sub-clauses – note that a sub-clause is only added if the particular special folder already exists within the store:
 1. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Deleted Items special folder.
 2. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Junk Mail special folder.
 3. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Drafts special folder.
 4. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Outbox special folder.
 5. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Conflicts special folder.

6. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Local Failures special folder.
 7. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Server Failures special folder.
 8. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Sync Issues special folder.
2. A restriction of type RES_OR, with the following four sub-clauses:
1. A restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_OR, with the following two sub-clauses:
 1. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_FULLSTRING bitwise or FL_IGNORECASE, comparing the value of PidTagMessageClass property to the string value "IPM.Task".
 2. A restriction of type RES_CONTENT with a ulFuzzyLevel of FL_PREFIX bitwise or FL_IGNORECASE, comparing the value of PidTagMessageClass property to the string value "IPM.Task".
 2. A restriction of type RES_NOT with the following sub-clause:
 1. A restriction of type RES_AND with the following 2 sub-clauses:
 1. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of the PidLidTaskState property to the LONG value 2.
 2. A restriction of type RES_PROPERTY, with relop RELOP_NE, comparing the value of the PidLidTaskAccepted property to the binary value 1.

2. A restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_EXIST that specifies the PidTagFollowupIcon property.
 2. A restriction of type RES_PROPERTY, with relop RELOP_GT, comparing the value of the PidTagFollowupIcon property to the LONG value 0.
3. A restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_EXIST that specifies the PidTagToDoItemFlags property
 2. A restriction of type RES_BITMASK with a relBMR value of BMR_NEZ that compares the value of the PidTagToDoItemFlags property to the ULONG value 0x00000001.
4. A restriction of type RES_OR, with the following two sub-clauses:
 1. A restriction of type RES_AND with the following three sub-clauses:
 1. A restriction of type RES_OR, with the following 2 sub-clauses:
 1. A restriction of type RES_NOT, with the following sub-clause:
 1. A restriction of type RES_EXIST that specifies the PidTagFollowupIcon property
 2. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of the PidTagFollowupIcon property to the LONG value 0
 2. A restriction of type RES_EXIST that specifies the PidTagFlagStatus property
 3. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of the PidTagFlagStatus property to the LONG value 1.
 2. A restriction of type RES_AND with the following two sub-clauses:

1. A restriction of type RES_EXIST that specifies the PidLidTaskStatus property.
2. A restriction of type RES_PROPERTY, with relop RELOP_EQ, comparing the value of the PidLidTaskStatus property to the ULONG value 2.
3. The search SHOULD run at normal priority relative to other searches, be initiated or restarted if necessary, include child folders, and run without content indexing.

3.1.4.1.3 Creating the Tracked Mail Processing Folder

To complete the creation of the **Tracked Mail Processing folder**, an implementation MUST set the Search Criteria for the Tracked Mail Processing folder, using the Search Folder List Configuration protocol, such that:

1. The Top of Personal Folders folder MUST be the only container included in the search.
2. The search applies a restriction of type RES_AND with the following two sub-clauses:
 1. A restriction of type RES_AND, with the following sub-clauses – note that a sub-clause is only added if the particular special folder already exists within the store:
 1. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Deleted Items special folder.
 2. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Junk Mail special folder.
 3. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Drafts special folder.
 4. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Outbox special folder.
 5. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Conflicts special folder.
 6. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Local Failures special folder.
 7. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Server Failures special folder.

8. A restriction of type RES_PROPERTY with a relop value of RELOP_NE, comparing the value of the PidTagParentEntryId property with the FID/MID pair of the Sync Issues special folder.
2. A restriction of type RES_AND, with the following two sub-clauses:
 1. A restriction of type RES_EXIST that specifies the PidTagSwappedToDoStore property.
 2. A restriction of type RES_BITMASK with a relBMR value of BMR_EQZ that compares the value of the PidTagMessageFlags property to the ULONG value including MSGFLAG_UNSENT bitwise or MSGFLAG_SUBMIT.
3. The search SHOULD run at normal priority relative to other searches, be initiated or restarted if necessary, include child folders, and run without content indexing.
4. .

3.1.4.1.4 Creating other Special Folders

If the special folder being created is one of the following:

- Deleted Items
- Junk E-mail
- Outbox
- Conflicts
- Local Failures
- Server Failures
- Sync Issues
- Drafts

an implementation MUST take the following additional steps:

1. Open the Reminders folder using its identification method and the Folder Object protocol. If this succeeds, perform the steps in section 3.1.4.1.1.
2. Open the To-Do Search folder using its identification method and the Folder Object protocol. If this succeeds, perform the steps in section 3.1.4.1.2.
3. Open the Tracked Mail Processing folder using its identification method and the Folder Object protocol. If this succeeds, perform the steps in section 3.1.4.1.3.

3.1.5 Message Processing Events and Sequencing Rules

An implementation MUST treat any failure to open the **Root folder** as a failure of the entire Special Folders protocol.

For all other special folders, an implementation SHOULD create the special folder if an attempt to open the folder using that folder's identification method fails.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

4 Protocol Examples

4.1 Opening a Special Folder

Using the **Calendar folder** as an example, opening this **special folder** involves the following:

1. Open the **Inbox folder** using the **Inbox identification method** and the Folder Object protocol. This operation returns a Folder object.
2. Get the value of the **PidTagIpmAppointmentEntryId property** from the Inbox folder object returned in step 1 using the Property and Stream Object protocol. This operation returns an **entry ID** for the Calendar folder.
3. Convert the entry ID returned in step 2 to an **FID** as specified in [MS-OXCDATA], then open this FID using the **Store Object** protocol. This operation returns a Folder object for the Calendar folder.

4.1.1 Client Request for Opening a Special Folder

A complete ROP request to open the Calendar folder would look like the following:

```
0000: 02 01 00 01 01 00 00 00-01 42 0E 44 00
```

RopOpenFolder

ROPid: 0x02

LogonIndex: 0

HandleIndex: 0 (HSOT=0x00000160)

FID: 0001-000001420e44

Note: Open the Inbox folder

OpenModeFlags: 0x00 ReadOnly

```
0000: 07 00 02 00 00 01 00 1D-00 14 00 49 67 03 00 F4
0010: 0F 02 01 72 66 1F 00 E5-36 1F 00 E6 36 1F 00 01
0020: 30 03 00 01 36 03 00 02-36 03 00 03 36 0B 00 0A
0030: 36 1F 00 13 36 02 01 16-36 02 01 D0 36 02 01 D1.
0040: 36 02 01 D2 36 02 01 D3-36 02 01 D4 36 02 01 D5
0050: 36 02 01 D6 36 02 01 D7-36 02 11 D8 36 02 01 D9
0060: 36 03 00 DE 36 02 01 DF-36 02 01 E0 36 03 00 E1
0070: 36 02 11 E4 36 02 01 EB-36 02 01 DA 36
```

RopGetPropertiesSpecific

ROPid: 0x07

LogonIndex: 1

HandleIndex: 1 (HSOT=0x000000e2)

PropertySizeLimit: 0x0000

WantUnicode: 0x0001 (TRUE)

PropCount: 29 (0x1D)

...

PidTagIpmAppointmentEntryId

...

```
0000: 02 01 00 01 01 00 00 00-01 50 4D F6 00
```

RopOpenFolder

ROPid: 0x02

LogonIndex: 1

HandleIndex: 0 (HSOT=0x00000160)

FID: 0001-000001504df6

Note: This is the FID for Calendar folder to open

OpenModeFlags: 0x00 ReadOnly

4.1.2 Server Response for Opening a Special Folder

0000: 02 01 00 00 00 00 00 00

RopOpenFolder

ROPid: 0x02

HandleIndex: 1 (HSOT=0x000000e2)

ReturnValue: ecNone (success) (0x00000000)

HasRulesFlag: 0x00 (FALSE)

IsReplica: 0x00 (FALSE)

Only 256 bytes dumped:

0000: 07 01 00 00 00 00 01 00-01 00 00 00 01 42 0E 41
0010: 00 3F 00 00 00 0A 0F 01-04 80 0A 0F 01 04 80 0A
0020: 0F 01 04 80 00 49 00 6E-00 62 00 6F 00 78 00 00
0030: 00 00 01 00 00 00 00 00-00 00 00 00 00 00 00 00
0040: 00 00 00 49 00 50 00 46-00 2E 00 4E 00 6F 00 74
0050: 00 65 00 00 00 0A 0F 01-04 80 00 2E 00 00 00 00
0060: 00 6A 3C B8 FA 3B A9 F0-46 B4 F4 E4 B6 C7 74 45
0070: 09 01 00 02 27 39 56 14-8B EF 4F 98 14 81 7E 2C
0080: 82 BD C2 00 00 01 50 4D-F6 00 00 00 2E 00 00 00
0090: 00 00 6A 3C B8 FA 3B A9-F0 46 B4 F4 E4 B6 C7 74
00a0: 45 09 01 00 02 27 39 56-14 8B EF 4F 98 14 81 7E
00b0: 2C 82 BD C2 00 00 01 50-4D F7 00 00 00 2E 00 00
00c0: 00 00 00 6A 3C B8 FA 3B-A9 F0 46 B4 F4 E4 B6 C7
00d0: 74 45 09 01 00 02 27 39-56 14 8B EF 4F 98 14 81
00e0: 7E 2C 82 BD C2 00 00 01-50 4D F8 00 00 00 2E 00
00f0: 00 00 00 00 6A 3C B8 FA-3B A9 F0 46 B4 F4 E4 B6

...

RopGetPropertiesSpecific

ROPid: 0x07

HandleIndex: 1 (HSOT=0x000000e2)

ReturnValue: ecNone (success) (0x00000000)

...

PropertyArray:

PropCount: 29

...

PidTagIpmAppointmentEntryId 46 Bytes
0000: 00 00 00 00 6A 3C B8 FA-3B A9 F0 46 B4 F4 E4 B6
0010: C7 74 45 09 01 00 02 27-39 56 14 8B EF 4F 98 14
0020: 81 7E 2C 82 BD C2 00 00-01 50 4D F6 00 00

...

Note: the Entry Id contains 00 00-01 50 4D F6 that is part of the FID: 0001-000001504df6 used for the RopOpenFolder in section 4.1.1.

0000: 02 01 00 00 00 00 00 00

RopOpenFolder

ROPid: 0x02

HandleIndex: 1 (HSOT=0x000000e2)

Note: successfully opened the Calendar folder, and calendar folder has a handle HSOT=0x000000e2

HasRulesFlag: 0x00 (FALSE)

IsReplica: 0x00 (FALSE)

...

4.2 Creating a Special Folder

Using the Calendar folder as an example, creating this special folder involves the following:

1. Open the parent **folder**, in this case the **Top of Personal Folders folder**, as specified in the Folder Hierarchy in section 3.1.1.1, using the Top of Personal Folders

identification method and the Folder Object protocol. This operation returns a Folder object.

2. Create a new folder in the opened parent folder, using the Folder Object protocol, and using the name “Calendar” in English locales, reusing the existing folder if one already exists by that name. The entry ID of the newly created folder will be used in the following steps.
3. Open the Inbox folder using the Inbox identification method and the Folder Object protocol. This operation returns a Folder object.
4. Set the value of the PidTagIpmAppointmentEntryId property on the Inbox folder object returned in step 3 to the entry ID value of the folder created in step 2, using the Property and Stream Object protocol.
5. Set the value of the PidTagContainerClass string property on the new Calendar folder to the value “IPF.Appointment”.

4.2.1 Client Request for Creating a Special Folder

A complete ROP request to Create the Calendar Folder would look like:

```
0000: 02 00 00 01 01 00 00 00-01 42 0E 41 00
```

RopOpenFolder

ROPid: 0x02

LogonIndex: 0

HandleIndex: 0 (HSOT=0x00000059)

FID: 0001-000001420e41

Note: FolderID 4: 0001-000001420e41 Top of Personal Folders folder from RopLogon

...

```
0000: 1C 00 00 01 01 01 00 00-43 00 61 00 6C 00 65 00
```

```
0010: 6E 00 64 00 61 00 72 00-00 00 43 00 61 00 6C 00
```

```
0020: 65 00 6E 00 64 00 61 00-72 00 20 00 43 00 6F 00
```

```
0030: 6D 00 6D 00 65 00 6E 00-74 00 00 00
```

RopCreateFolder

ROPid: 0x1C

LogonIndex: 0
HandleIndex: 0 (HSOT=0x00000497)
FolderHandleIndex: 1
FolderType: 0x01
IsUnicodeFolder: 0x01 (TRUE)
OpenIfPreexistingFolder: 0x00 (FALSE)
HasFolderLongTermEID: 0x00 (FALSE)
FolderDisplayName: Calendar
FolderComment: Calendar Comment

0000: 02 00 00 01 01 00 00 00-01 42 0E 44 00

RopOpenFolder

ROPid: 0x02

LogonIndex: 0

HandleIndex: 0 (HSOT=0x00000059)

FID: 0001-00001420e44

Note: Open Inbox folder with above FID

OpenModeFlags: 0x00 ReadOnly

0000: 0A 00 00 36 00 01 00 02-01 D0 36 2E 00 00 00 00

0010: 00 6A 3C B8 FA 3B A9 F0-46 B4 F4 E4 B6 C7 74 45

0020: 09 01 00 02 27 39 56 14-8B EF 4F 98 14 81 7E 2C

0030: 82 BD C2 00 00 01 50 4D-F6 00 00

RopSetProperties

ROPid: 0x0A

LogonIndex: 0

HandleIndex: 0 (HSOT=0x000004e4)

Note: HSOT=0x000004e4 is a handle to Inbox

PropertySize: 0x0036 (54)

PropCount: 1 (0x01)

0x36D00102 PidTagIpmAppointmentEntryId 46 Bytes

0000: 00 00 00 00 6A 3C B8 FA-3B A9 F0 46 B4 F4 E4 B6

0010: C7 74 45 09 01 00 02 27-39 56 14 8B EF 4F 98 14

0020: 81 7E 2C 82 BD C2 00 00-01 50 4D F6 00 00

0000: 0A 00 00 26 00 01 00 1F-00 13 36 49 00 50 00 46

0010: 00 2E 00 41 00 70 00 70-00 6F 00 69 00 6E 00 74

0020: 00 6D 00 65 00 6E 00 74-00 00 00

RopSetProperties

ROPid: 0x0A

LogonIndex: 0

HandleIndex: 0 (HSOT=0x0000042e)

PropertySize: 0x0026 (38)

PropCount: 1 (0x01)

PidTagContainerClass

IPF.Appointment

4.2.2 Server Response for Creating a Special Folder

0000: 02 01 00 00 00 00 00 00

RopOpenFolder

ROPid: 0x02

HandleIndex: 1 (HSOT=0x00000497)

Note: Handle HSOT=0x00000497 of Top of Personal Folder is used to create Calendar folder in section 4.2.1 Client Request RopCreateFolder

ReturnValue: ecNone (success) (0x00000000)

HasRulesFlag: 0x00 (FALSE)

IsReplica: 0x00 (FALSE)

0000: 1C 01 00 00 00 00 01 00-00 00 01 50 4D F6 00

RopCreateFolder

ROPid: 0x1C

HandleIndex: 1 (HSOT=0x0000042e)

Note: HSOT=0x0000042e is the handle to the Calendar folder created

ReturnValue: ecNone (success) (0x00000000)

FID: 0001-000001504df6

IsExistingFolder: 0x00 (FALSE)

0000: 02 01 00 00 00 00 00 00

RopOpenFolder

ROPid: 0x02

HandleIndex: 1 (HSOT=0x000004e4)

Note: HSOT=0x000004e4 is the handle of the Inbox folder. It is used in 4.2.1, Client Request RopSetProperties.PidTagIpmAppointmentEntryId of Calendar folder

ReturnValue: ecNone (success) (0x00000000)

HasRulesFlag: 0x00 (FALSE)

IsReplica: 0x00 (FALSE)

0000: 0A 00 00 00 00 00 00 00

RopSetProperties

ROPid: 0x0A
HandleIndex: 0 (HSOT=0x0000042e)
ReturnValue: ecNone (success) (0x00000000)
ProblemPropertyTagCount: 0
ProblemPropertyTagArray:

...

0000: 0A 00 00 00 00 00 00 00

RopSetProperties
ROPid: 0x0A
HandleIndex: 0 (HSOT=0x0000042e)
ReturnValue: ecNone (success) (0x00000000)
ProblemPropertyTagCount: 0
ProblemPropertyTagArray:

5 Security

5.1 Security Considerations for Implementers

There are no special security considerations specific to the Special Folders protocol. General security considerations pertaining to the underlying protocols apply (see [MS-OXCSTOR], [MS-OXCFOLD], and [MS-OXCPRPT]).

5.2 Index of Security Parameters

None.

6 Appendix A: Office/Exchange Behavior

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

- Office 2003 with Service Pack 3 applied
- Exchange 2003 with Service Pack 2 applied
- Office 2007 with Service Pack 1 applied
- Exchange 2007 with Service Pack 1 applied

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

1 Outlook 2003 SP3 sets the search criteria to include only the Calendar, Tasks, Inbox, and Contacts folders, and it only sets a restriction for PidLidReminderSet and PidLidRecurring, and it does not include RECURSIVE_SEARCH.

Preliminary

7 Index

Applicability statement, 12
Client and server details, 18
Examples, 29
Fields, vendor-extensible, 12
Glossary, 5
Index of security parameters, 37
Informative references, 8
Introduction, 5
Message
 Transport, 13
Message s XE "Messages:Message syntax"yntax, 13
Messages, 13
 Message syntax, 13
Normative references, 7
Office/Exchange behavior, 37
Overview, 9
Preconditions, 12
Prerequisites, 12
Protocol details, 18
 Client and server details, 18
References, 7
 Informative references, 8
 Normative references, 7
Relationship to other protocols, 12
Security, 37
 Considerations for implementers, 37
 Index of security parameters, 37
Security considerations for implementers, 37
Standards assignments, 13
Transport, 13
Vendor-extensible fields, 12
Versioning and capability negotiation, 12