# MAPI Inspector Testing Case Design Specification

The document introduces how to design MAPI Inspector Automation testing case. There are eleven parsers message need to be triggered in MAPI Inspector. There are two scenarios: cached mode scenario and non-cached mode. The two kinds of mode trigger different messages, such as a new folder created under Inbox Folder, RopCreateFolder can be triggered on Non-cached mode, but RopImportHierarchy for Cached mode.

There are two parts included: how many messages triggered and how to design case based on the triggered messages.

# Message Triggered

## MS-OXCROPS

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopSubmitMessage | Yes |  |
| RopAbortSubmit | No | RFC#99723 |
| RopGetAddressTypes | Yes |  |
| RopSetSpooler | Yes |  |
| RopSpoolerLockMessage | No | RFC#99723 |
| RopTransportSend | Yes |  |
| RopTransportNewMail | No | RFC#99723 |
| RopGetTransportFolder | Yes |  |
| RopOptionData | No | Outlook 2016 doesn’t support |
| RopBufferTooSmall | Yes |  |
| RopBackoff | Yes |  |
| RopRelease | Yes |  |

## MS-OXCMSG

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopOpenMessage | Yes |  |
| RopCreateMessage | Yes |  |
| RopSaveChangesMessage | Yes |  |
| RopRemoveAllRecipients | Yes |  |
| RopModifyRecipients | Yes |  |
| RopReadRecipients | Yes |  |
| RopReloadCachedInformation | Yes |  |
| RopSetMessageStatus | Yes |  |
| RopGetMessageStatus | Yes |  |
| RopSetReadFlags | Yes |  |
| RopSetMessageReadFlag | Yes |  |
| RopOpenAttachment | Yes |  |
| RopCreateAttachment | Yes |  |
| RopDeleteAttachment | Yes |  |
| RopSaveChangesAttachment | Yes |  |
| RopOpenEmbededMessage | Yes |  |
| RopGetAttachmentTable | Yes |  |
| RopGetValidAttachments | Yes |  |

## MS-OXORULE

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopModifyRules | Yes |  |
| RopGetRulesTable | Yes |  |
| RopUpdateDeferredActionMessages | No | TDQ#55084 |

## MS-OXCSTOR

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopLogon | Yes |  |
| RopGetReceiveFolder | Yes |  |
| RopSetReceiveFolder | No | TDQ#44982 |
| RopGetReceiveFolderTable | No | TDQ#44995 |
| RopGetStoreState | No | Outlook 2016 doesn’t support. |
| RopGetOwningServers | No | TDQ#45293 |
| RopPublicFolderIsGhosted | No | TDQ#55596 |
| RopLongTermIdFromId | Yes |  |
| RopIdFromLongTermId | Yes |  |
| RopGetPerUserLongTermIds | Yes |  |
| RopGetPerUserGuid | Yes |  |
| RopReadPerUserInformation | Yes |  |
| RopWritePerUserInformation | No | TDQ#55198 |

## MS-OXCPERM

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopModifyPermissions | Yes |  |
| RopGetPermissionsTable | Yes |  |

## MS-OXCFXICS

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopFastTransferDestinationConfigure | Yes |  |
| RopFastTransferDestinationPutBuffer | Yes |  |
| RopFastTransferDestinationPutBufferExtended | Yes |  |
| RopFastTransferSourceGetBuffer | Yes |  |
| RopFastTransferSourceCopyFolder | Yes |  |
| RopFastTransferSourceCopyMessages | Yes |  |
| RopFastTransferSourceCopyTo | Yes |  |
| RopFastTransferSourceCopyProperties | Yes |  |
| RopTellVersion | Yes |  |
| RopSynchronizationConfigure | Yes |  |
| RopSynchronizationImportMessageChange | Yes |  |
| RopSynchronizationImportReadStateChanges | Yes |  |
| RopSynchronizationImportHierarchyChange | Yes |  |
| RopSynchronizationImportDeletes | Yes |  |
| RopSynchronizationImportMessageMove | Yes |  |
| RopSynchronizationOpenCollector | Yes |  |
| RopSynchronizationGetTransferState | Yes |  |
| RopSynchronizationUploadStateStreamBegin | Yes |  |
| RopSynchronizationUploadStateStreamContinue | Yes |  |
| RopSynchronizationUploadStateStreamEnd | Yes |  |
| RopSetLocalReplicaMidsetDeleted | Yes |  |
| RopGetLocalReplicaIds | Yes |  |

## MS-OXCMAPIHTTP

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| Connect | Yes |  |
| Execute | Yes |  |
| Disconnect | Yes |  |
| NotificationWait | Yes |  |
| Bind | Yes |  |
| Unbind | Yes |  |
| CompareMinIds | No | RFC#99724 |
| DnToMinId | Yes |  |
| GetMatches | Yes |  |
| GetPropList | No | RFC#99724 |
| GetProps | Yes |  |
| GetSpecialTable | Yes |  |
| GetTemplateInfo | Yes |  |
| ModLinkAtt | No | RFC#99724 |
| ModProps | No | RFC#99724 |
| QueryRows | Yes |  |
| QueryColumns | No | RFC#99724 |
| ResolveNames | Yes |  |
| ResortRestriction | No | RFC#99724 |
| SeekEntries | Yes |  |
| UpdateStat | Yes |  |
| GetMailboxUrl | No | RFC#99724 |
| GetAddressBookUrl | No | RFC#99724 |
| PING | Yes |  |

## MS-OXCFOLD

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopOpenFolder | Yes |  |
| RopCreateFolder | Yes |  |
| RopDeleteFolder | Yes |  |
| RopSetSearchCriteria | Yes |  |
| RopGetSearchCriteria | No | TDQ#46399 |
| RopMoveCopyMessages | Yes |  |
| RopMoveFolder | Yes |  |
| RopCopyFolder | Yes |  |
| RopEmptyFolder | Yes |  |
| RopHardDeleteMessagesAndSubfolders | No | TDQ#45890 |
| RopDeleteMessages | Yes |  |
| RopHardDeleteMessages | Yes |  |
| RopGetHierarchyTable | Yes |  |
| RopGetContentsTable | Yes |  |

## MS-OXCNOTIF

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopRegisterNotification | Yes |  |
| RopNotify | Yes |  |
| RopPending | Yes |  |

## MS-OXCPRPT

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopGetPropertyIdsFromNames | Yes |  |
| RopGetNamesFromPropertyIds | No | TDQ#45949 |
| RopGetPropertiesSpecific | Yes |  |
| RopGetPropertiesAll | No | TDQ#46598 |
| RopGetPropertiesList | No | TDQ#46595 and 46598 |
| RopSetProperties | Yes |  |
| RopSetPropertiesNoReplicate | No | TDQ 46034,59647 |
| RopDeleteProperties | Yes |  |
| RopDeletePropertiesNoReplicate | Yes |  |
| RopQueryNamedProperties | No | TDQ 59365 |
| RopCopyProperties | Yes |  |
| RopCopyTo | Yes |  |
| RopProgress | Yes |  |
| RopOpenStream | Yes |  |
| RopReadStream | Yes |  |
| RopWriteStream | Yes |  |
| RopWriteStreamExtended | Yes |  |
| RopCommitStream | Yes |  |
| RopGetStreamSize | No | TDQ#46096 |
| RopSetStreamSize | Yes |  |
| RopSeekStream | Yes |  |
| RopCopyToStream | No | TDQ#59565 |
| RopLockRegionStream | No | TDQ#59565 |
| RopUnlockRegionStream | No | TDQ#47457 |
| RopWriteAndCommitStream | No | TDQ#55109 |
| RopCloneStream | No | TDQ#55117 |

## MS-OXCTABL

|  |  |  |
| --- | --- | --- |
| Message Defined | Triggered/Not | Reason |
| RopSetColumns | Yes |  |
| RopSortTable | Yes |  |
| RopRestrict | Yes |  |
| RopQueryRows | Yes |  |
| RopAbort | No | Outlook 16 does not support |
| RopGetStatus | No | TDQ#46162 |
| RopQueryPosition | Yes |  |
| RopSeekRow | Yes |  |
| RopSeekRowBookmark | No | TDQ#45907 |
| RopSeekRowFractional | No | TDQ#45908 |
| RopCreateBookmark | No | TDQ#45909 |
| RopQueryColumnsAll | No | TDQ#45910 |
| RopFindRow | Yes |  |
| RopFreeBookmark | No | TDQ#45911 |
| RopResetTable | Yes |  |
| RopExpandRow | Yes |  |
| RopCollapseRow | Yes |  |
| RopGetCollapseState | Yes |  |
| RopSetCollapseState | Yes |  |

# Testing scenario

The testing scenario is based on triggered messages.

## Automation testing

### Cached Mode Testing scenarios

#### Common steps

|  |  |
| --- | --- |
|  | Common steps |
| Precondition | 1. Start outlook 2. Get the common folders, such as inbox folder |
| Cleanup | 1. Clean up the created items 2. Close outlook |

#### Send email successfully

|  |  |
| --- | --- |
|  | Test Case\_SendEmailSuccess |
| Precondition | Common precondition |
| Steps | 1. Create a simple email 2. Create another simple email 3. Attach the email in step 2 to the email in step 1 4. Send the email out 5. Get the latest sent mail from sent mail folder |
| Message covered | RopOpenEmbeddedMessage |
| Clean up | Common cleanup |

#### Move email to same mailbox folder

|  |  |
| --- | --- |
|  | Test Case\_MoveMailToSameMailboxFolder |
| Precondition | Common precondition |
| Steps | 1. Create a simple email and save it to the draft folder 2. Add a sub-folder testFolder under draft folder 3. Move the email to the testFolder 4. Get the latest mail from testFolder 5. Delete all subfolders in draft folder |
| Message covered | RopImportMessageMove, RopImportMessageReadState, RopImportMessageChange, RopImportDelete, RopImportHierarchy |
| Clean up | Common cleanup |

#### Create New Rule

|  |  |
| --- | --- |
|  | Test Case\_CreateNewRule |
| Precondition | Common precondition |
| Steps | 1. Get current mail user’s information 2. Get the default rules 3. Create a new rule, which is from current mail user and add the mark as task action 4. Save the rule |
| Message covered | RopModifyRules, RopGetRulesTable |
| Clean up | Common cleanup |

#### Junk And Remove Recipient

|  |  |
| --- | --- |
|  | Test Case\_JunkAddRemoveRecipert |
| Precondition | Common precondition |
| Steps | 1. Open the Junk menu 2. Open the Junk Email Options 3. Click the Safe Recipients tab and add one recipient |
| Message covered | RopCommitStream |
| Clean up | Common cleanup |

### Non-Cached Mode Testing scenarios

#### Common steps

|  |  |
| --- | --- |
|  | Common steps |
| Precondition | 1. Start outlook 2. Get the common folders, such as inbox folder |
| Cleanup | 1. Clean up the created items 2. Close outlook |

#### Change Message Properties of Public Folder

|  |  |
| --- | --- |
|  | Test Case\_ ChangeMessagePropertiesInPublicFolder |
| Precondition | Common precondition |
| Steps | 1. Create a normal email 2. Move this email to the sub-folder of root public folder 3. Get the email and update some properties for it 4. Empty the sub-folder in step 2 |
| Message covered | RopGetMessageStatus, RopSetMessageStatus |
| Clean up | Common cleanup |

#### Open Email Message of Public Folder

|  |  |
| --- | --- |
|  | Test Case\_ OpenMailMessageInPublicFolder |
| Precondition | Common precondition |
| Steps | 1. Create a normal email and send it out 2. Get the email in step 1 from Sent Items Folder 3. Move the email to the sub-folder of root public folder 4. Get the email from the public folder and present it 5. Empty the sub-folder in step 2 |
| Message covered | RopReadRecipients |
| Clean up | Common cleanup |

#### Folder operations About Public Folder

|  |  |
| --- | --- |
|  | Test Case\_ FolderOperationsInPublicFolder |
| Precondition | Common precondition |
| Steps | 1. Get the first sub-folder of root public folder 2. Add a sub-folder named testFolder under the folder in step 1 3. Add a sub-folder named subTestFolder under the testFolder 4. Move the subTestFolder to the folder in step 1 5. Delete all sub-folders under the folder in step 1 |
| Message covered | RopMoveFolder |
| Clean up | Common cleanup |

#### Delete Message from Deleted Items Folder

|  |  |
| --- | --- |
|  | Test Case\_ DeleteMessageInDeletedItemFolder |
| Precondition | Common precondition |
| Steps | 1. Create a normal email and send it out 2. Get the latest sent mail from Sent Items Folder 3. Delete the mail from Sent Items Folder 4. Get the deleted mail from Deleted Items Folder 5. Delete the mail from Deleted Items Folder |
| Message covered | RopDeleteMessages |
| Clean up | Common cleanup |

#### Folder Operations Inbox Folder

|  |  |
| --- | --- |
|  | Test Case\_ FolderOperationsInboxFolder |
| Precondition | Common precondition |
| Steps | 1. Add a sub-folder named testFolder under the Inbox Folder 2. Add a sub-folder named subTestFolder under the testFolder 3. Copy subTestFolder to Inbox Folder 4. Delete all sub-folders under Inbox Folder 5. Delete all sub-folders under Deleted Items Folder |
| Message covered | RopCreateFolder, RopDeleteFolder, RopCopyFolder |
| Clean up | Common cleanup |

#### Instant Search

|  |  |
| --- | --- |
|  | Test Case\_ InstantSearch |
| Precondition | Common precondition |
| Steps | 1. Create a new outlook search explorer 2. Input the keyword in search explorer and press Enter key 3. Close the popped-up Outlook window |
| Message covered | RopSetSearchCritera, RopGetSearchCritera, RopResetTable |
| Clean up | Common cleanup |

#### Modify Folder Permissions

|  |  |
| --- | --- |
|  | Test Case\_ ModifyFolderPermissions |
| Precondition | Common precondition |
| Steps | 1. Go to the Folder tab 2. Select the Folder Permission menu 3. Check the Create Items option 4. Click OK |
| Message covered | RopModifyPermissions, RopGetPermissionsTable |
| Clean up | Common cleanup |

#### New a Note and Forward It

|  |  |
| --- | --- |
|  | Test Case\_ NewNoteAndForward |
| Precondition | Common precondition |
| Steps | 1. Create a new note 2. Create a normal email 3. Add the note created in step 1 as the email’s attachment 4. Send the email out 5. Get the latest sent email from Sent Items Folder |
| Message covered | RopCopyTo, RopGetPropertyIdsFromNames, RopSetProperties, RopReloadCachedInformation |
| Clean up | Common cleanup |

#### Receive Email and Forward It

|  |  |
| --- | --- |
|  | Test Case\_ ReceiveEmailAndForward |
| Precondition | Common precondition |
| Steps | 1. Create a normal email 2. Add attachment for the new created email 3. Send the email out 4. Get the latest sent email from Sent Items Folder 5. Update the email body 6. Forward the email |
| Message covered | CopyProperties |
| Clean up | Common cleanup |

#### New Mail and Move To Sub Public Folder

|  |  |
| --- | --- |
|  | Test Case\_ NewMailAndMoveToSubPublicFolder |
| Precondition | Common precondition |
| Steps | 1. Create a normal email and save it to Draft Folder 2. Create another email and save 3. Get the first sub-folder of root public folder 4. Add a sub-folder named testFolder under the first sub-folder 5. Move the created email in step 1 to the testFolder 6. Move the created email in step 2 to the testFolder 7. Copy the testFolder to Inbox Folder 8. Delete all sub-folders in the first sub-folder 9. Delete all sub-folders in Inbox folder |
| Message covered | CopyTo,CopyFolder,GetNuffer,TellVersion,Destination |
| Clean up | Common cleanup |

#### New Recurring Meeting and Update the start time

|  |  |
| --- | --- |
|  | Test Case\_ NewRecurringMeetingAndUpdateOneStartTime |
| Precondition | Common precondition |
| Steps | 1. Click the New Items menu 2. Select the Meeting sub-menu 3. Create a new meeting via adding subject, location and so on 4. Make the meeting as recurrence 5. Check the receiver name 6. Get the latest meeting and update the start time 7. Clean up the created items from Calendar folder |
| Message covered | FastTransferSourceCopyProperties SeekStream |
| Clean up | Common cleanup |

#### Modify Mail View Arrange

|  |  |
| --- | --- |
|  | Test Case\_ ModifyMailViewArrage |
| Precondition | Common precondition |
| Steps | 1. Create a normal email 2. Send the email out 3. Get View tab and select it 4. Select categories item in View tab 5. Get the latest received mail in Inbox 6. Collapse the mail grouped by Categories 7. Select Date item in view tab window |
| Message covered | RopResetTable, RopExpandRow, RopCollapseRow, RopGetCollapseState, RopSetCollapseState |
| Clean up | Common cleanup |

#### Send and Receive All Folder

|  |  |
| --- | --- |
|  | Test Case\_ SendReceiveAllFolder |
| Precondition | Common precondition |
| Steps | 1. Select Send / Receive tab 2. Click the "Send/Receive All Folders" button |
| Message covered | RopSetSpooler |
| Clean up | Common cleanup |

#### Address Book

|  |  |
| --- | --- |
|  | Test Case\_ AddressBook |
| Precondition | Common precondition |
| Steps | 1. Click Home tab 2. Select Address Book menu 3. Check the Name only option 4. Input a search value in search box 5. Close the Address Book window |
| Message covered | SeekEntries, UpdateState |
| Clean up | Common cleanup |

## Manual testing

### Single user’s scenario

#### Filter the messages

|  |  |
| --- | --- |
|  | Test Case\_ FilterTheMessage |
| Precondition | 1. Office 365 user1 logged on outlook (cached mode) |
| Steps | 1. User 1 new a mail message and send it to itself 2. Add six categories (e.g. red, yellow, purple, orange, blue and green) for this mail 3. Filter this message via clicking Categorized with green category 4. Clear the filter |
| Message covered | N/A |
| Clean up | 1. Sign off the outlook |

### Multiple user’s scenario

#### Send meeting request

|  |  |
| --- | --- |
|  | Test Case\_ SendMeetingRequest |
| Precondition | 1. Office 365 user1 logged on outlook (cached mode) 2. Office 365 user2 logged on outlook |
| Steps | 1. User 1 new a meeting 2. The recipient is user 2 in To line 3. Add subject, Location and body (three lines with three different formats: HTML, Plain Text and Rich Text) 4. Click “Send” button 5. User 2 received the meeting request and open it |
| Message covered | N/A |
| Clean up | 1. Sign off the outlook |

### Multiple data provider scenario

#### Send mail and chat with the same user

|  |  |
| --- | --- |
|  | Test Case\_ SendMailAndChatWithTheSameUser |
| Precondition | 1. Logged on the outlook with work account 2. Logged on the Lync with work account |
| Steps | 1. User 1 send an email to another work account (user 2) 2. User 1 chat with user 2 3. Filter the user 2 in outlook contacts 4. Wait for ten minutes to sync between outlook and Lync |
| Message covered | N/A |
| Clean up | 1. Sign off the outlook 2. Sign off the Lync |