

MS-ASCAL Test Suite Specification

**Abstract:** This document provides information about how to configure the test suite and how the MS-ASCAL test suite is designed to test the MS-ASCAL Open Specification usability and accuracy. It describes test assumptions, scope and constraints of the test suite. It also specifies test scenarios, detailed test cases, test suite architecture and adapter design.

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# Configuring the test suite

## Configuring the test suite client

### Configuring the test suite client manually

Before you run the test suite, update the values in the MS-ASCAL\_TestSuite.deployment.ptfconfig file. The MS-ASCAL\_TestSuite.deployment.ptfconfig file can also be configured by running the client setup script.

1. Open MS-ASCAL\TestSuite\MS-ASCAL\_TestSuite.deployment.ptfconfig.
2. Update the following value to specify the common configuration file.

Property name="CommonConfigurationFileName" value="ExchangeCommonConfiguration.deployment.ptfconfig"

**Note** This property can be removed or set to empty if the required properties are copied to the test suite specific configuration file. Any other changes to this property will cause all test cases in the test suite to fail during execution. The test suite searches through its specific configuration file and uses those properties, if they are defined, before looking for them in the common configuration file (if specified).

1. Update the following properties' values to match SUT settings and configuration.

* Property name="OrganizerUserName" value="MSASCAL\_User01"
* Property name="OrganizerUserPassword" value="Password01!"
* Property name="AttendeeUserName" value="MSASCAL\_User02"
* Property name="AttendeeUserPassword" value="Password01!"

### Configuring the test suite client by scripts

To configure the test suite client using scripts, see section 5.2.1 of the [ExchangeEASTestSuiteDeploymentGuide.docx](../ExchangeEASTestSuiteDeploymentGuide.docx).

## Configuring the system under test (SUT)

### Configuring the SUT manually

To manually configure the SUT, see section 5.1.2 of the [ExchangeEASTestSuiteDeploymentGuide.docx](../ExchangeEASTestSuiteDeploymentGuide.docx).

### Configuring the SUT by scripts

To configure the SUT using scripts, see section 5.1.1 of the [ExchangeEASTestSuiteDeploymentGuide.docx](../ExchangeEASTestSuiteDeploymentGuide.docx).

## Configuring the SHOULD/MAY requirements

Implementation of the SHOULD/MAY and endnote-related requirements are pre-configured in the format "<Property name="RXXXEnabled" value="XXXX"/>" for the product versions in the following config files:

* MS-ASCAL\_ExchangeServer2007\_SHOULDMAY.deployment.ptfconfig
* MS-ASCAL\_ExchangeServer2010\_SHOULDMAY.deployment.ptfconfig
* MS-ASCAL\_ExchangeServer2013\_SHOULDMAY.deployment.ptfconfig

If RXXXEnabled is set to true, the requirement must be checked. If false, the requirement must not be checked. For Microsoft product versions, all values should not be changed. For third-party products, the closest Microsoft product version should be chosen, and the value of RXXXEnabled should be updated according to the real product behavior. For example, if Exchange Server 2010 is chosen,user can open **MS-ASCAL\_ExchangeServer2010\_SHOULDMAY.deployment.ptfconfig** and update the RXXXEnabled accordingly.

# Test suite design

## Assumptions, scope and constraints

Assumptions

None.

Scope

In scope

* This test suite will verify the accuracy and integrity of the technical content in the Open Specification against the results returned from the protocol server in ActiveSync command response.
* This test suite will verify all the XML schema elements embedded inside of the command response.
* This test suite will verify the server-side and testable requirements by running all test cases on both HTTP and HTTPS.
* This test suite will verify requirements from Exchange ActiveSync: Data Types ([MS-ASDTYPE]) and Exchange ActiveSync: WAP Binary XML Algorithm ([MS-ASWBXML]).

Out of scope

* This test suite will not verify the requirements related to client behaviors.
* This test suite will not verify the requirements related to server internal behaviors.
* This test suite will not verify the internal implementations of its transport protocol stack.

Constraints

None.

## Test suite architecture

This test suite verifies the server-side and testable requirements obtained from the Open Specification. The following figure shows the architecture of this test suite.



The architecture of the test suite

The details of the MS-ASCAL test suite architecture

* SUT hosts the calendar data synchronization service which this test suite runs against.
* From third-party user’s point of view, the SUT is the protocol server implementation.
* The following products have been tested with the MS-ASCAL test suite on the Windows platform.
* Microsoft Exchange Server 2007 Service Pack 3 (SP3)
* Microsoft Exchange Server 2010 Service Pack 3 (SP3)
* Microsoft Exchange Server 2013 Service Pack 1 (SP1)
* The test suite acts as the client to communicate with the SUT and validates the requirements gathered from the MS-ASCAL Open Specification.
* Test cases use the MS-ASCAL protocol adapter to call and get the results of the MS-ASCAL commands.
* MS-ASCAL protocol adapter is used in the test cases. The test cases call the methods in the interface to invoke the MS-ASCAL protocol adapter’s commands.
* MS-ASCAL protocol adapter uses ActiveSyncClient to send command request and retrieve command response.
* ActiveSyncClient encodes and decodes Sync command, Search command, MeetingResponse command, ItemOperations command, SendMail command and FolderSync command defined in [MS-ASCMD] by using MS-ASWBXML and communicates with the SUT via MS-ASHTTP.

## Technical dependencies and considerations

Dependencies

* This test suite depends on the HTTP protocol or HTTPS protocol to transmit the messages.
* This test suite depends on Protocol Test Framework (PTF) to derive managed adapter.
* This test suite depends on MS-ASWBXML to encode XMLrequests bodies into WBXML for transmission to an ActiveSync server.
* This test suite depends on MS-ASHTTP to synchronize the data which is stored on the server.
* This test suite depends on the xsd.exe tool in the .NET Framework SDK to generate structures used in the MS-ASCAL request and response.

Encryption consideration

* Transportation of MS-ASCAL includes HTTP and HTTPS, and encryption will be handled by HTTPS.

## Adapter design

### Adapter overview

One protocol adapter is used in this test suite.

Protocol adapter

* MS-ASCAL protocol adapter
* The MS-ASCAL adapter is a managed adapter, which is derived from the ManagedAdapterBase class in PTF.
* The MS-ASCAL adapter has the following functionalities
* Choose HTTP or HTTPS for transport;
* Construct requests of MS-ASCAL commands;
* Communicate with the SUT by sending requests to the SUT and receiving the corresponding responses from the SUT;
* Parse the response messages and validate the messages according to the XML schema.

### Technical feasibility of adapter approach

Message generation

The MS-ASCAL adapter gets the parameter values and calls the corresponding commands in ActiveSyncClient. The ActiveSyncClient serializes the parameter values to XML elements, and then encodes requests bodies into WBXML for transmission to an ActiveSync server.

Message consumption

The command messages received from the SUT will be parsed in the ActiveSyncClient and be passed to the MS-ASCAL adapter. The messages are then consumed in the MS-ASCAL adapter to validate the message format and to validate the logic-related requirements in the test cases.

### Adapter abstract layer

Protocol adapter

MS-ASCAL adapter interface

There are eight methods declared in the MS-ASCAL adapter interface IMS\_ASCALAdapter.

The methods ItemOperations, Search and Sync correspond to the three commands used by MS-ASCAL. The methods FolderSync, MeetingResponse and SendMail are used to cover other requirements related to them. The method SwitchUser is used to change user to call ActiveSync commands.

The methods are described in the following table.

|  |  |  |
| --- | --- | --- |
| **No.** | **Method** | **Description** |
| 1 | FolderSync | Synchronize the collection hierarchy. |
| 2 | ItemOperations | Fetch all information about Exchange objects. |
| 3 | MeetingResponse | Accept, tentatively accept, or decline a meeting request. |
| 4 | Search | Retrieve E-mail class items from the server that match the criteria specified by the client. |
| 5 | SendMail | Send MIME-formatted email messages to the server. |
| 6 | SendStringRequest | Send a string request of Sync command and get a response from server. |
| 7 | SwitchUser | Change user to call ActiveSync commands. |
| 8 | Sync | Synchronize E-mail items for a specified user with the existing e-mail items stored on the server. |

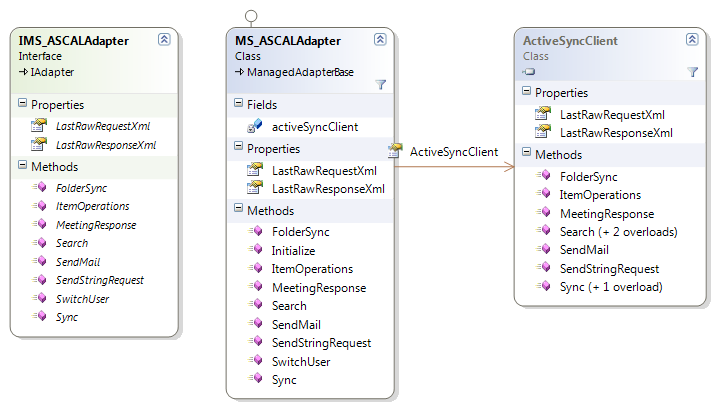
MS-ASCAL adapter interface methods

### Adapter details

#### Protocol adapter

##### MS-ASCAL protocol adapter

The following figure shows the class diagram of the MS-ASCAL protocol adapter and the relationship between MS\_ASCALAdapter and ActiveSyncClient.



MS-ASCAL adapter and ActiveSyncClient class diagram

The following outlines details of the class diagram:

Adapter interface

* IMS\_ASCALAdapter is the interface of the protocol adapter.
* IMS\_ASCALAdapter defines the methods invoked by the test cases, including the following eight methods: FolderSync, ItemOperations, MeetingResponse, Search, SendMail, SwitchUser, SendStringRequest and Sync.

Adapter implementation

* MS\_ASCALAdapter is the protocol adapter class of the test suite. It is used to implement IMS\_ASCALAdapter.
* MS\_ASCALAdapter invokes the methods defined in ActiveSyncClient to operate with Calendar class data between client and server.
* The two properties LastRawRequestXml and LastRawResponseXml are used to get the raw request and raw response xml data.
* The Initialize method is used to initialize an instance of ActiveSyncClient.

## Test scenarios

Two scenarios are designed to cover server-side, testable requirements in the MS-ASCAL test suite. The details of the scenarios are as follows.

|  |  |
| --- | --- |
| Scenario | Description |
| S01\_CalendarElement | This scenario is to test Calendar class elements, which are not attached in a Meeting request, including synchronizing the calendar on the server, fetching information of the calendar or searching a specific calendar. |
| S02\_MeetingElement | This scenario is to test Calendar class elements, which are attached in a Meeting request, when meeting is either accepted, tentative accepted, cancelled or declined. |

MS-ASCAL scenarios

### S01\_CalendarElement

Description

This scenario is to test Calendar class elements, which are not attached in a Meeting request, including synchronizing the calendar on the server, fetching information of the calendar or searching a specific calendar.

Commands

* ItemOperations
* Search
* Sync

Prerequisites

Set HTTP or HTTPS as the transport.

Cleanup

Call Sync command with SyncCollectionDelete element to delete the items created on the server.

### S02\_MeetingElement

Description

This scenario is to test Calendar class elements, which are attached in a Meeting request, when meeting is either accepted, tentative, cancelled or declined.

Commands

* Sync

Prerequisites

Set HTTP or HTTPS as the transport.

Cleanup

Call Sync command with SyncCollectionDelete element to delete the items created on the server.

## Test case design

### Traditional test case design

Traditional testing is adopted as the test approach for this test suite. The test cases are designed to cover the server-side and testable requirements.

There are 37 traditional test cases designed to cover the two scenarios mentioned in section [2.6 Test scenarios](#_Test_scenarios). Details of the traditional test cases are specified in section [2.7.2 Test case description](#_Test_case_description). The scenarios distributions of the test cases are listed in the following table.

|  |  |
| --- | --- |
| Scenario ID | Test case name |
| S01\_CalendarElement | MSASCAL\_S01\_TC01\_AllDayEvent |
| MSASCAL\_S01\_TC02\_Sensitivity |
| MSASCAL\_S01\_TC03\_CalendarWithoutOptionalElements |
| MSASCAL\_S01\_TC04\_MultipleElements |
| MSASCAL\_S01\_TC05\_CalendarWithoutStartTimeEndTime |
| MSASCAL\_S01\_TC06\_StartTimeAbsentEndTimePast |
| MSASCAL\_S01\_TC07\_StartTimeAbsentEndTimeFuture |
| MSASCAL\_S01\_TC08\_StartTimePastEndTimeAbsent |
| MSASCAL\_S01\_TC09\_StartTimeFutureEndTimeAbsent |
| MSASCAL\_S01\_TC10\_Categories |
| MSASCAL\_S01\_TC11\_RecurrenceWithType0 |
| MSASCAL\_S01\_TC12\_RecurrenceWithType1 |
| MSASCAL\_S01\_TC13\_RecurrenceWithType2 |
| MSASCAL\_S01\_TC14\_RecurrenceWithType3 |
| MSASCAL\_S01\_TC15\_RecurrenceWithType5 |
| MSASCAL\_S01\_TC16\_RecurrenceWithType6 |
| MSASCAL\_S01\_TC17\_FirstDayOfWeek |
| MSASCAL\_S01\_TC18\_WrongFormatEmailElement |
| MSASCAL\_S01\_TC19\_OccurrencesAndUntilBothSet |
| MSASCAL\_S01\_TC20\_IsLeapMonth |
| MSASCAL\_S01\_TC21\_Status6WithMultiCalendarType |
| MSASCAL\_S01\_TC22\_Status6WithSpecifiedCalendarType |
| MSASCAL\_S01\_TC23\_Status6WithOutsideRangeFirstDayOfWeek |
| MSASCAL\_S01\_TC24\_Status6WithDayOfMonth |
| MSASCAL\_S01\_TC25\_Status6WithDayOfWeek |
| MSASCAL\_S01\_TC26\_Status6WithMonthOfYear |
| MSASCAL\_S01\_TC27\_Status6WithWeekOfMonth |
| MSASCAL\_S01\_TC28\_GhostedElements |
| MSASCAL\_S01\_TC29\_ItemOperations |
| MSASCAL\_S01\_TC30\_Search |
| MSASCAL\_S01\_TC31\_UnchangedExceptions |
| S02\_MeetingElement | MSASCAL\_S02\_TC01\_MeetingAccepted |
| MSASCAL\_S02\_TC02\_MeetingDeclined |
| MSASCAL\_S02\_TC03\_MeetingTentative |
| MSASCAL\_S02\_TC04\_MeetingNotResponded |
| MSASCAL\_S02\_TC05\_MeetingCancellation |
| MSASCAL\_S02\_TC06\_ExceptionElements |

Test case scenario distribution

### Test case description

The following table describes common prerequisites and common cleanup steps for all the test cases.

|  |  |
| --- | --- |
| Common prerequisites | 1. Uses HTTP or HTTPS as the transport. 2. Call FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. |
| Common cleanup | Call Sync command with SyncCollectionDelete element to delete the items created on the server. |

Test case common prerequisites and common cleanup

The steps in the following test cases use methods and parameters in the adapter interfaces directly.

The following tables describe the traditional test cases.

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC01\_AllDayEvent |
| Description | This test case is designed to verify a calendar class with an AllDayEvent element via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with the element AllDayEvent set as “0”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Syncmethod with an Add element to add a calendar, with the element AllDayEvent set as “1”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with the element AllDayEvent as “1” and the StartTime and EndTime elements are not midnight to midnight values, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC01\_AllDayEvent

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC02\_Sensitivity |
| Description | This test case is to verify a calendar class with a Sensitivity element via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with the element Sensitivity set as “0”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Syncmethod with an Add element to add a calendar, with the element Sensitivity set as “1”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server 5. The client calls Syncmethod with an Add element to add a calendar, with the element Sensitivity set as “2”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server 7. The client calls Syncmethod with an Add element to add a calendar, with the element Sensitivity set as “3”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server**.** |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC02\_Sensitivity

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC03\_CalendarWithoutOptionalElements |
| Description | This test case is to verify a calendar class without optional elements via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar without optional elements to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC03\_CalendarWithoutOptionalElements

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC04\_MultipleElements |
| Description | This test case is designed to verify a calendar class with multiple elements via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with the elements such as DTStamp, Location, OnlineMeetingExternalLink, OrganizerEmail, OrganizerName, Reminder, Subject, TimeZone and UID , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC04\_MultipleElements

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC05\_CalendarWithoutStartTimeEndTime |
| Description | This test case is designed to verify a calendar class without StartTime and EndTime elements via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, without StartTime and EndTime elements, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC05\_CalendarWithoutStartTimeEndTime

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC06\_StartTimeAbsentEndTimePast |
| Description | This test case is designed to verify a calendar class with an EndTime element set as past time via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with setting the EndTime as a past time , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC06\_StartTimeAbsentEndTimePast

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC07\_StartTimeAbsentEndTimeFuture |
| Description | This test case is designed to verify a calendar class with an EndTime element set as future time via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with setting the EndTime as a future time , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Syncmethod with an Add element to add a calendar, with setting the EndTime as a future time but earlier than the rounded current time, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC07\_StartTimeAbsentEndTimeFuture

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC08\_StartTimePastEndTimeAbsent |
| Description | This test case is designed to verify a calendar class with a StartTime element set as past time via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with setting the StartTime as a past time , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC08\_StartTimePastEndTimeAbsent

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC09\_StartTimeFutureEndTimeAbsent |
| Description | This test case is designed to verify a calendar class with a StartTime element set as future time via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod to add a calendar, with setting the StartTime as a future time, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC09\_StartTimeFutureEndTimeAbsent

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC10\_Categories |
| Description | This test case is designed to verify a calendar class with a Categories element via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Syncmethod with an Add element to add a calendar, with the element Categories and one sub-element Category, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Syncmethod with an Add element to add a calendar, with the element Categories and more than 300 sub-elements Category, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC10\_Categories

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC11\_RecurrenceWithType0 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs daily via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “0” and Occurrence element, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “0” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “0”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC11\_RecurrenceWithType0

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC12\_RecurrenceWithType1 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs weekly via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “1” and Occurrence element , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “1” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “1”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC12\_RecurrenceWithType1

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC13\_RecurrenceWithType2 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs monthly via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “2” and Occurrence element , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “2” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “2”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “2” and CalendarType sub-element set as "1", to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC13\_RecurrenceWithType2

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC14\_RecurrenceWithType3 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs monthly on the nth day via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “3” and Occurrence element , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “3” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “3”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC14\_RecurrenceWithType3

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC15\_RecurrenceWithType5 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs yearly via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “5” and Occurrence element , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “5” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “5”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC15\_RecurrenceWithType5

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC16\_RecurrenceWithType6 |
| Description | This test case is designed to verify a calendar class with a Recurrence element when Type set as recurs yearly on the nth day via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “6” and Occurrence element , to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “6” and Until element , to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including Type “6”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC16\_RecurrenceWithType6

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC17\_FirstDayOfWeek |
| Description | This test case is designed to verify a calendar class with a Recurrence element including the element FirstDayOfWeek. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including including Type '1' and the sub element FirstDayOfWeek, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including including Type '1', to the server. 4. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC17\_FirstDayOfWeek

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC18\_WrongFormatEmailElement |
| Description | This test case is designed to verify wrong-format Email element related requirements. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with wrong-formatted Attendee’s Email. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC18\_WrongFormatEmailElement

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC19\_OccurrencesAndUntilBothSet |
| Description | This test case is designed to verify Recurrence element when Occurrences and Until both are set. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Occurrences and Until elements both set, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with the element Recurrence including Occurrences sub-element set as '999', to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with the element Recurrence including Occurrences sub-element set as more than '999', to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC19\_OccurrencesAndUntilBothSet

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC20\_IsLeapMonth |
| Description | This test case is designed to verify a calendar class with a Recurrence element including the element IsLeapMonth. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including the sub elements IsLeapMonth set as “0” and CalendarType set as a lunisolar calendar system, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including the sub elements IsLeapMonth set as “1” and CalendarType set as a lunisolar calendar system, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including only the sub element CalendarType set as a lunisolar calendar system, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including the sub elements IsLeapMonth set as “1” and CalendarType set as “Gregorian”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC20\_IsLeapMonth

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC21\_Status6WithMultiCalendarType |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including more than one CalendarType elements. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including two CalendarType elements when Type is “2”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including two CalendarType elements when Type is “3”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including two CalendarType elements when Type is “5”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including two CalendarType elements when Type is “6”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC21\_Status6WithMultiCalendarType

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC22\_Status6WithSpecifiedCalendarType |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including CalendarType with specified value. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “13”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “16”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “17”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “18”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. 9. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “19”, to the server. 10. The client calls Sync method to get the calendar added in step 9 from server. 11. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “21”, to the server. 12. The client calls Sync method to get the calendar added in step 11 from server. 13. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “22”, to the server. 14. The client calls Sync method to get the calendar added in step 13 from server. 15. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a CalendarType element set as “23”, to the server. 16. The client calls Sync method to get the calendar added in step 15 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC22\_Status6WithSpecifiedCalendarType

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC23\_Status6WithOutsideRangeFirstDayOfWeek |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including a FirstDayOfWeek element with out-of-ranged. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a FirstDayOfWeek element set as “7”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC23\_Status6WithOutsideRangeFirstDayOfWeek

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC24\_Status6WithDayOfMonth |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including a DayOfMonth element. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfMonth element when Type is “0”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfMonth element when Type is “1”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfMonth element when Type is “3”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfMonth element when Type is “6”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC24\_Status6WithDayOfMonth

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC25\_Status6WithDayOfWeek |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including a DayOfWeek element. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfWeek element when Type is “2”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a DayOfWeek element when Type is “5”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC25\_Status6WithDayOfWeek

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC26\_Status6WithMonthOfYear |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including a MonthOfYear element. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a MonthOfYear element when Type is “0”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a MonthOfYear element when Type is “1”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a MonthOfYear element when Type is “2”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a MonthOfYear element when Type is “3”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC26\_Status6WithMonthOfYear

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC27\_Status6WithWeekOfMonth |
| Description | This test case is designed to verify the server will respond with status code 6 when a calendar class with a Recurrence element including a WeekOfMonth element. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a WeekOfMonth element when Type is “0”, to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a WeekOfMonth element when Type is “1”, to the server. 4. The client calls Sync method to get the calendar added in step 3 from server. 5. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a WeekOfMonth element when Type is “2”, to the server. 6. The client calls Sync method to get the calendar added in step 5 from server. 7. The client calls Sync method with an Add element to add a calendar, with Recurrence element including a WeekOfMonth element when Type is “5”, to the server. 8. The client calls Sync method to get the calendar added in step 7 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC27\_Status6WithWeekOfMonth

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC28\_GhostedElements |
| Description | This test case is designed to verify ghosted elements. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar with all ghosted properties set to the server. 2. The client calls Sync method to get the calendar added in step 1 from server. 3. The client calls sync method to change a non-ghosted calendar class element to the server. 4. The client calls Sync method to get the calendar updated in step 3 from server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC28\_GhostedElements

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC29\_ItemOperations |
| Description | This test case is designed to when the client uses ItemOperations command in the default inline way to Fetch the calendar, the server responds with part element instead of data element in the Calendar's body. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar to the server. 2. The client calls Sync method to Sync calendars from the server. 3. The client calls ItemOperations with Fetch element to retrieveall the information about calendars using ServerIds |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC29\_ItemOperations

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC30\_Search |
| Description | This test case is designed to verify the client calls Search command request to search calendars using the given keyword text, the calendar which satisfies the condition returned. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar to the server. 2. The client calls search method to search calendars using the given keyword text. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC30\_Search

|  |  |
| --- | --- |
| S01\_CalendarElement | |
| Test case ID | MSASCAL\_S01\_TC31\_UnchangedExceptions |
| Description | This test case is designed to verify exceptions via invoking Sync command. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The client calls Sync method with an Add element to add a calendar to the server. 2. The client calls Sync method to Sync calendars from the server. |
| Cleanup | Common cleanup |

MSASCAL\_S01\_TC31\_UnchangedExceptions

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC01\_MeetingAccepted |
| Description | This case is designed to verify ResponseType, AttendeeStatus, Name, Email, AppointmentReplyTime , BusyStatus, MeetingStatus and AttendeeType when recipient accepts the meeting. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item in the calendar folder. 2. The organizer calls SendMail method to send the meeting request to the attendee. 3. The organizer calls Sync method to synchronize the calendar item on the server. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls Sync method to synchronize the meeting request on the server. 6. The attendee calls MeetingResponse method to accept the meeting. 7. The attendee calls Sync method to synchronize the meeting request on the server. 8. The sender calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 9. The sender calls Sync method to synchronize the calendar item on the server. |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC01\_MeetingAccepted

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC02\_MeetingDeclined |
| Description | This test case is designed to verify ResponseType, AttendeeStatus, Name, Email, AppointmentReplyTime , BusyStatus, MeetingStatus and AttendeeType when recipient declines the meeting. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item in the calendar folder. 2. The organizer calls SendMail method to send the meeting request to the recipient. 3. The organizer calls Sync method to synchronize the calendar item on the server. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls Sync method to synchronize the meeting request on the server. 6. The attendee calls MeetingResponse method to decline the meeting. 7. The attendee calls Sync method to synchronize the meeting request on the server. 8. The organizer calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 9. The organizer calls Sync method to synchronize the calendar item on the server |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC02\_MeetingDeclined

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC03\_MeetingTentative |
| Description | This test case is designed to verify ResponseType, AttendeeStatus, Name, Email, AppointmentReplyTime , BusyStatus, MeetingStatus and AttendeeType when the meeting is tentative. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item in the calendar folder. 2. The organizer calls SendMail method to send the meeting request to the recipient. 3. The organizer calls Sync method to synchronize the calendar item on the server. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls Sync method to synchronize the meeting request on the server. 6. The attendee calls MeetingResponse method to make the meeting tentative. 7. The attendee calls Sync method to synchronize the meeting request on the server. 8. The organizer calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 9. The organizer calls Sync method to synchronize the calendar item on the server |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC03\_MeetingTentative

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC04\_MeetingNotResponded |
| Description | This test case is designed to verify ResponseType, ResponseRequested, AttendeeStatus, Name, Email, AppointmentReplyTime, BusyStatus, MeetingStatus and AttendeeType when recipient respond the meeting with no action. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item in the calendar folder. 2. The organizer calls SendMail method to send the meeting request to the recipient. 3. The organizer calls Sync method to synchronize the calendar item on the server. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls Sync method to synchronize the meeting request on the server. 6. The organizer calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 7. The organizer calls Sync method to synchronize the calendar item on the server |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC04\_MeetingNotResponded

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC05\_MeetingCancellation |
| Description | This test case is designed to verify element MeetingStatus when meeting is cancelled. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item in the calendar folder. 2. The organizer calls Sync method to synchronize the calendar item on the server. 3. The organizer calls SendMail method to send the meeting request to the attendee. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls Sync method to synchronize the meeting request on the server. 6. The organizer calls SendMail method to send the meeting cancellation request to the recipient. 7. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 8. The attendee calls Sync method to synchronize the meeting request on the server. |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC05\_MeetingCancellation

|  |  |
| --- | --- |
| S02\_MeetingElement | |
| Test case ID | MSASCAL\_S02\_TC06\_ExceptionElements |
| Description | This test case is designed to verify all elements in Exception. |
| Prerequisites | Common prerequisites |
| Test execution steps | 1. The organizer calls Sync method with an Add element to add a calendar item, with Exceptions element including all sub elements, in the calendar folder. 2. The organizer calls SendMail method to send the meeting request to the attendee. 3. The organizer calls Sync method to synchronize the calendar item on the server. 4. The attendee calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 5. The attendee calls MeetingResponse method to accept the meeting. 6. The attendee calls Sync method to synchronize the meeting request on the server. 7. The organizer calls FolderSync to get ServerId of Inbox Folder, Calendar Folder, SentItems Folder and DeletedItems Folder. 8. The organizer calls Sync method to synchronize the calendar item on the server. |
| Cleanup | Common cleanup |

MSASCAL\_S02\_TC06\_ExceptionElements